DOCUMENT RESUME

ED 155 382 CE 016 769

TITLE	Guide to the Evaluation of Educational Experiences in the Armed Services, 76. 1977 Supplement.
INSTITUTION	American Council on Education, Washington, D.C.
SPONS AGENCY	Department of the Army, Washington, D.C.
PUB DATE	[77]
NOTE	190p.; Not available in hard copy due to small print in original document
EDRS PRICE	MF-$0.83 Plus Postage. HC Not Available from EDRS.
DESCRIPTORS	Employment Level; *Employment Qualifications; Guides; Job Analysis; *Job Skills; *Military Personnel; *Occupational Information; Promotion (Occupational)
IDENTIFIERS	Army

ABSTRACT

This guide supplement provides users with up-to-date information on Army enlisted and warrant officer military occupational specialties (MOS's), including recommendations for all MOS's evaluated through October 1977. Following an introductory section on how to use the guide, the remaining content is in two sections. The first contains over 600 exhibits for enlisted MOS's, and the second over seventy exhibits for warrant officer MOS's. Each of these exhibits includes an I.D. number, title, MOS designation (a code number), skill levels codes, effective exhibit dates, career management field, (related MOS's and sub-fields) or career pattern (enlisted or other warrant officer MOS's a warrant officer may have previously held), description (which, for enlisted MOS's, includes a general description of duties and qualifications that apply to the relevant skill levels, followed by descriptions of the skills, competencies, and knowledge required for proficiency at each skill level; and, for warrant officers, a description of duties and qualifications required in the MOS), and educational/training recommendations which, for enlisted MOS's, are given for each skill level (includes category, amount, and subject area). The appendix includes information on how MOS's are evaluated, descriptions of additional characters making up the MOS's, descriptions of the career management fields, and the Army Occupational Title Index. (EM)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

ED155382

GUIDE

TO THE EVALUATION OF EDUCATIONAL EXPERIENCES IN THE ARMED SERVICES

1977 Supplement

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
NATIONAL INSTITUTE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

CE 016 769

AMERICAN COUNCIL ON EDUCATION

AMERICAN COUNCIL ON EDUCATION

J. W. Peltason, *President*

The American Council on Education, founded in 1918 and composed of institutions of higher education and national and regional educational associations, is the nation's major coordinating body for postsecondary education. Through voluntary and cooperative action, the Council provides comprehensive leadership for improving educational standards, policies, and procedures.

The Office on Educational Credit is the Council's division concerned with credit and credentialing policies and practices in postsecondary education. The role of the office and its policy-making and advisory arm, the Commission on Educational Credit, is to give attention to educational credit and credentialing policies for postsecondary education; to foster high standards and sound practices for the evaluation and recognition of extra-institutional learning; to foster and operate programs to establish and publish credit equivalencies for extra-institutional learning, and to advise postsecondary education institutions on how these credit equivalencies can be used in placing students in academic programs and in credentialing educational accomplishment; to assist postsecondary education institutions in providing people with due recognition for competency, knowledge, and skills, wherever and however obtained; and to provide people with an alternative means of demonstrating high-school-graduation competencies. OEC makes credit recommendations for testing programs such as the College-Level Examination Program (CLEP) and administers the General Educational Development (GED) Testing Program. OEC also makes credit recommendations for formal courses offered by the military and other noncollegiate sponsors such as business, industry, government agencies, voluntary and professional associations, and labor unions; for Army military occupational specialties (MOS's) and Navy ratings; and for home study courses accredited by the National Home Study Council. In a new study for the U.S. Department of Labor, the Office will determine whether credit recommendations can be made for apprenticeship programs registered with the Bureau of Apprenticeship and Training. The office's Task Force on Educational Credit and Credentials has developed recommendations for improving the credit and credentialing system. The *Final Report* of the Task Force and a companion volume, *Credentialing Educational Accomplishment*, will be published in early 1978.

Prepared by
American Council on Education

Published through
Education Directorate,
TAGCEN, Department of the Army

COMMISSION ON EDUCATIONAL CREDIT
of the American Council on Education

MEMBERS

Terms ending December 31, 1977: Dorothy Arata, Assistant Provost, Michigan State University (Chairman); J. Douglas Conner, Executive Secretary, American Association of Collegiate Registrars and Admissions Officers; Frank G. Dickey, Acting Dean, Department of Academic Studies, North Carolina School of the Arts; Gary L. Filerman, President, Association of University Programs in Health Administration; Cyril O. Houle, Professor of Education, University of Chicago.

Terms ending December 31, 1978: Neal R. Berte, President, Birmingham-Southern College; Samuel B. Gould, Chancellor Pro Tem, Commission for Higher Education, Connecticut; Barbara H. Knudson, Professor of Continuing Education, University of Minnesota; Robert J. Kost, Director, Marketing Educational Services, General Motors Corporation; Kenneth E. Young, President, Council on Postsecondary Accreditation.

Terms ending December 31, 1979: Shirley S. Chater, Vice-Chancellor for Academic Affairs, University of California, San Francisco; Walter G. Davis, Director, Department of Education, AFL-CIO; Edmund J. Gleazer, Jr., President, American Association of Community and Junior Colleges; T. Edward Hollander, Chancellor, New Jersey State Department of Education; J. Boyd Page, President, Council of Graduate Schools in the United States.

Terms ending December 31, 1980: John F. Grede, Vice-Chancellor, Career and Manpower Programs, City Colleges of Chicago; Owen B. Kiernan, Executive Director, National Association of Secondary School Principals; John W. Porter, Superintendent of Public Instruction, Michigan State Department of Education; Herman B. Smith, Jr., Chancellor, University of Arkansas, Pine Bluff; Thurman J. White, Vice-President for Continuing Education and Public Service, University of Oklahoma.

Ex Officio: Martha E. Church, President, Hood College; J. W. Peltason, President, American Council on Education; Bill J. Priest, Chancellor, Dallas County Community College District.

STAFF

Jerry W. Miller, Director
Henry A. Spille, Associate Director
Eugene J. Sullivan, Associate Director
John J. Sullivan, Associate Director
Hazel L. Ripple, Acting Administrator, GED Testing Service

**The material in this publication is not copyrighted.
It may be quoted and reproduced in the interest of education.**

The 1977 supplement to the *Guide to the Evaluation of Educational Experiences in the Armed Services* contains up-to-date information on Army military occupational specialties (MOS's), including recommendations for all MOS's evaluated through October 1977.

The 1977 supplement is distinctive in several ways.

First, it introduces credit recommendations for 24 Army warrant officer MOS's.

Second, it introduces a new exhibit format. Each time there is a new recommendation for an MOS, there will be a new exhibit. The 1977 supplement contains 676 exhibits for 519 enlisted and warrant officer MOS's, including all enlisted MOS's currently in use and some that have been discontinued.

Third, it provides users with an easy way of determining the evaluation status of a given MOS. When users look up an MOS in the 1977 supplement, they will find one or more exhibits containing the current recommendation or they will find an exhibit that includes the statement, "Pending evaluation." When users cannot find an exhibit for an MOS, they can be certain that OEC has not evaluated the MOS and has no plans to do so.

Fourth, it includes an expanded introductory chapter, "How to Use the 1977 Supplement," a chapter that should be considered "must reading" by all users. In addition to new material on warrant officer MOS's, the chapter contains new and revised material on enlisted MOS's, including new sections on the enlisted MOS evaluation score.

The supplement also includes new appendixes that will give users additional MOS information, as well as an occupational title index that will help users find the MOS exhibits.

The 1977 supplement is an interim publication for use until the 1978 edition of the *Guide* is published. (The 1978 edition will supersede the 1977 supplement.)

We hope that users will find the 1977 supplement helpful in recognizing the learning acquired by Army soldiers and veterans.

Contents

How to Use the 1977 Supplement vii

Army Enlisted MOS's vii
How to Locate and Read an Enlisted MOS Exhibit x
Army Warrant Officer MOS's xiii
How to Locate and Read a Warrant Officer MOS Exhibit xv
Elements of the Recommendations xvi
Using the Recommendations xix
OEC Information Service xxiii

Army Enlisted MOS Exhibits 1

Army Warrant Officer MOS Exhibits 137

Appendix A: How ACE Evaluates MOS's 145

Appendix B: Enlisted Special Qualifications Identifiers 147

Appendix C: Enlisted Additional Skill Identifiers 149

Appendix D: Enlisted Career Management Fields 153

Appendix E: Warrant Officer Special Qualifications Identifiers 157

Appendix F: Warrant Officer Additional Skill Identifiers 159

Army Occupational Title Index 161

PRODUCTION STAFF FOR 1977 SUPPLEMENT

Henry A. Spille, Associate Director, OEC
L. E. Boswell, Assistant Director for Publications, OEC
Ruth Cargo, Program Associate
Judith Cangialosi, Senior Staff Assistant
Nancy C. Brungart, Administrative Secretary
Laura A. Wilson, Publications Secretary

How to Use the 1977 Supplement

The 1977 supplement to the *Guide to the Evaluation of Educational Experiences in the Armed Services* contains recommendations for all Army enlisted and warrant officer military occupational specialties (MOS's) evaluated through October 1977.

The recommendations and accompanying descriptions are intended to assist in the placement of Army soldiers and veterans in postsecondary education programs and in apprentice training programs and jobs. The recommendations and descriptions are provided to postsecondary education officials, apprenticeship and training officials, and employers for use as tools for educational and occupational counseling, planning, and placement.

Because of the many changes and additions that have been made since the 1976 edition was published, *readers are urged to give careful attention to this chapter.* It presents substantially revised material on Army enlisted MOS's, including new sections on the enlisted MOS evaluation score; introduces material on Army warrant officer MOS's; explains the new exhibit format and how to locate and interpret enlisted and warrant officer MOS exhibits; identifies factors to consider when applying the recommendations; and explains how to receive assistance from the Office on Educational Credit (OEC). Readers interested in how ACE derives the recommendations should refer to **Appendix A,** "How ACE Evaluates MOS's."

ARMY ENLISTED MOS's

The following paragraphs include background information on Army enlisted MOS's, a description of the enlisted MOS classification system, and detailed information on the enlisted MOS evaluation score.

The Army Enlisted MOS Classification System

The Army Enlisted Military Occupational Specialty (MOS) Classification System is a comprehensive taxonomy of Army enlisted duty positions. Closely related positions that require similar qualifications and the performance of similar duties are grouped as an MOS under a generic title. The job title *clerk-typist,* for example, encompasses duty assignments such as file clerk, shipping clerk, reports clerk, clerk-typist, and senior clerk-typist.

Soldiers and Army veterans, and Army records, usually refer to enlisted occupations using a designation with *at least* five characters (e.g., 71B10, 71B20, 71B30). **Figure 1** shows the elements of an enlisted MOS designation. The first three characters (two numbers and a letter) identify the MOS (e.g., 71B is the designation for clerk-typist). The fourth character, a number from one to five, indicates the type and level of skill within the MOS. As shown in Figure 1, only the skills, competencies, and knowledge represented by the *first four characters* of the MOS designation are evaluated for comparability with civilian learning.

The fifth character is normally zero ("0"); in some cases, a letter is used as a special qualifications identifier (SQI) to indicate a soldier's specific duty assignment or special qualifications. In fact, an enlisted soldier's occupation may be expressed by as many as nine characters, but because the last five characters indicate special qualifications that are variable, the learning they represent is not evaluated by ACE. **Appendixes B** and **C** provide users with information describing the additional characters that make up the enlisted MOS designation: enlisted Special Qualifications Identifiers (SQIs) are described in **Appendix B**, and enlisted Additional Skill Identifiers (ASIs) are described in **Appendix C**. Users may want to conduct an individual assessment and grant credit to recognize the additional learning represented by these characters.

The first three characters, then, represent the MOS, or occupational designation, and the fourth character represents the skill level within the MOS. In accordance with Army practice, *skill levels are referred to in this publication with a neutral fifth character: zero* (i.e., 10, 20, 30, 40, and 50). Each enlisted MOS has from one to five skill levels, depending on the types of duty positions encompassed by the MOS. The five skill levels may be broadly characterized as follows:

Skill Level 10 identifies helper or entry-level positions requiring performance of tasks under direct supervision.

Skills, Competencies, and Knowledge Evaluated								
1st Character	2nd Character	3rd Character	4th Character	5th Character	6th Character	7th Character	8th Character	9th Character
number 0–9	number 0–9	letter A–Z	number 1–5	"0" letter	letter	number	letter	letter
Military Occupational Specialty (MOS)			Skill Level	Special Qualifications Identifier (SQI)	Additional Skill Identifier (ASI)		Language Identification Code (LIC)	
				See Appendix A	*See* Appendix B		Normally assigned after completion of Defense Language Institute course or achieving a comparable score on a competency examination. Refer to formal course recommendations.	

Figure 1. *The Enlisted MOS Structure.*

Skill Level 20 identifies positions requiring performance of more difficult tasks under general supervision.

Skill Level 30 identifies positions requiring performance of still more difficult tasks under a minimum of supervision, and, in some instances, involving supervision of soldiers in Skill Levels 10 and 20.

Skill Level 40 identifies positions requiring relatively detailed knowledge of all tasks specified for a given MOS and normally involving first-line supervision of soldiers in Skill Levels 10, 20, and 30.

Skill Level 50 identifies managerial and supervisory positions requiring broad knowledge of the tasks performed at all subordinate levels in a given MOS and related MOS's in order to coordinate and give direction to work activities.

Thus, each skill level represents progressively complex duties, increased skills, and greater responsibility, and proficiency in a higher skill level includes the ability to perform the tasks required for the lower skill level(s), as well as additional tasks.

Enlisted MOS's are grouped into 34 career management fields within the enlisted MOS classification system. Each career management field provides opportunities for advancement and career progression among related MOS's. Most career management fields are divided into subfields of closely related MOS's. Brief descriptions of career management fields are provided in **Appendix D**.

The Enlisted MOS Evaluation Score

The Army regularly evaluates each enlisted soldier's MOS proficiency through the Enlisted Evaluation System. Each individual is evaluated to determine whether he or she has acquired and maintained the necessary MOS skills, competencies, and knowledge, as codified and described in the enlisted MOS classification system. The result of the evaluation is an MOS evaluation score.

In general, an MOS evaluation score of 70 or higher is the easiest way for a *Guide* user to determine whether a given individual is eligible for an enlisted MOS recommendation. However, the Enlisted Evaluation System is undergoing change. *Guide* users should carefully read the description of the changing Enlisted Evaluation System in this section, as well as the section, "Using the Enlisted MOS Evaluation Score" (p.), to understand when to accept an MOS evaluation score of 70 or higher as evidence of MOS proficiency and when other verification should be sought.

The following paragraphs describe the Enlisted Evaluation System that was in use until January 1977, the interim testing that is presently being conducted, and the new Skills Qualification Tests (SQTs) that are being introduced.

The Enlisted MOS Evaluation Score Through December 1976. Until January 1977, the Enlisted Evaluation System comprised a written examination (and in some MOS's, a performance examination such as typing or musical instrument performance) and the supervisor's rating of the soldier's job performance. The written examination was a 125-item, multiple-choice test that covered all major areas of skill-level proficiency. The written tests for a given MOS were administered worldwide once a year on a specified date, announced a minimum of 90 days in advance. Proper test security measures were maintained, and test administration was standardized. Make-up tests were made available for soldiers who could not take the test on the specified

evaluation date because of extenuating circumstances.

The score that resulted from the application of the Enlisted Evaluation System was normally a composite score, consisting of the score on the written MOS test, the score from the supervisor's rating of job performance on the Enlisted Efficiency Report (EER), and the score on the performance test, if one was required. The composite MOS evaluation score was determined by statistically converting the raw scores, with the score from the supervisor's rating (EER) receiving less weight than the score from the written test (sometimes combined with the score from a performance test). Composite MOS evaluation scores ranged from a low of 40 to a high of 160, with the minimum qualification score set at 70. A soldier who failed to achieve a satisfactory raw score on either the written examination or the supervisor's rating could lose his or her MOS designation and might be considered ineligible for reenlistment in the Army.

Before making recommendations for any MOS's, ACE conducted an independent study in 1974 of the Army's Enlisted Evaluation System. As part of the study, ACE retained measurement specialists, who investigated and confirmed the thoroughness of the Army testing procedures and techniques and the reliability and validity of the enlisted MOS written tests. In addition, subject-matter and apprentice-training specialists confirmed the content validity of the written tests in the course of conducting the MOS evaluations.

The result of the study was that ACE endorses a successful enlisted MOS evaluation score (70 or higher) as evidence of a person's enlisted MOS proficiency—and consequently, of eligibility for the ACE recommendation—when the score was derived under the Enlisted Evaluation System as it existed through December 1976.

Interim Testing and Evaluation Scores. The administration of the MOS written tests as part of the Enlisted Evaluation System was suspended as of January 1, 1977. The tests are still being administered to some soldiers for reenlistment purposes and to some who are qualifying for the award of an MOS for the first time. However, the testing procedures are substantially different from the test development and administration processes that were reviewed and approved by the measurement specialists during the ACE study in 1974. The examinations are being modified by the staffs of the relevant Army schools to fit current MOS requirements. The tests are administered and scored at the soldier's duty station. Cut-off scores are determined by the Army schools and vary from test to test.

Because of these differences, ACE recommends that *Guide* users *not* accept scores resulting from the interim testing system as evidence of MOS proficiency. The staff of the Education Directorate of The Adjutant General Center, U.S. Army, concurs with this recommendation.

The replacement evaluation instrument, the Skills Qualification Test (SQT), is being phased in over the next two years. During the interim, however, most soldiers will be evaluated solely through the Enlisted Efficiency Report (EER), the supervisor's rating of the soldier's on-the-job performance. An "EER-only" enlisted MOS evaluation score will not be a composite score and will not include a score from a standardized examination. (NOTE: A few soldiers received "EER-only" evaluation scores prior to January 1977, usually either because there were so few people assigned to the MOS that no meaningful validity and reliability coefficients could be calculated for a standardized written test or because an individual was in an unusual situation that precluded administration of the written MOS test). The acceptability of "EER-only" enlisted MOS evaluation scores is discussed in "Using the Enlisted MOS Evaluation Score," p. xx.

The SQTs. The Skills Qualification Tests are expected to be used Army-wide by March 1980. They will assess the soldier's occupational proficiency through a combination of a hands-on performance evaluation, a written test, and the supervisor's performance certification of specific tasks. Development of the SQTs is based on an analysis of critical skills required for proficiency in a given MOS. The test will be used for soldiers to requalify in the assigned skill level and to qualify for the next higher skill level. Soldiers will be notified of the testing date 60 days in advance and will normally be tested once every two years. For each MOS, there will be a Soldier's Manual for the soldier to study to prepare for the test. A soldier who fails to requalify in his or her MOS will be given one more opportunity, within a year, to pass the test before being reclassified. The minimum qualification score will be 70.

The SQTs are being phased in by career management field. The present schedule calls for the development of all SQTs by March 31, 1980. Even though the phasing-in process has just begun, *Guide* users may encounter some soldiers who already have an SQT score for an MOS in Career Management Field 11 (Maneuver Combat Arms), 16 (Air Defense Artillery), 76 (Supply and Service), and 95 (Law Enforce-

ment).

In the near future, ACE will assemble a team of measurement specialists to determine the reliability of the SQT evaluation system. The study will be conducted at Fort Eustis, Virginia, where the tests are being developed. The measurement specialists will review the test development procedures and the reliability and validity data, using the guidelines for test evaluation prepared by the American Psychological Association and the recently approved ACE criteria and procedures for test evaluation. ACE recommends that *Guide* users *not* accept the SQT scores as evidence of MOS proficiency until the study is completed. The results of the study will be announced in the *OEC Newsletter*.

Users are urged to carefully read the section, "Using the Enlisted MOS Evaluation Score" on p. xx, before accepting an MOS evaluation score as evidence of MOS proficiency.

Further information on the enlisted MOS classification and evaluation system may be obtained by contacting the OEC Information Service (see p. xxiii).

HOW TO LOCATE AND READ AN ENLISTED MOS EXHIBIT

This supplement introduces a new exhibit format for enlisted MOS's. The main difference in the format is that each time there are one or more new recommendations for an MOS there will be a new exhibit. Because many MOS's have more than one exhibit, the supplement contains over 600 exhibits for 448 enlisted MOS's, including all enlisted MOS's currently in use and some that have been discontinued.

The exhibit format was designed to enable the user to locate the appropriate exhibit(s) for an enlisted MOS when two things are known: (1) the five-character MOS designation and (2) the dates for the period during which the MOS was held. When the title of the MOS is known, the exhibit(s) can also be found by referring to the **Army Occupational Title Index**, another new feature in this supplement.

An enlisted MOS exhibit normally includes the OEC I.D. number, the MOS title(s), the five-character MOS skill-level designation(s), the effective dates of the exhibit, the career management field, descriptions summarizing the MOS and each of its skill levels, and recommendations and the date of evaluation for each skill level. A sample exhibit for an enlisted MOS is provided in **Figure 2.** A detailed explanation of each item in an enlisted MOS exhibit follows.

OEC I.D. Number

A nine-character code uniquely identifies each exhibit. The exhibit I.D. number has three components. The first component, *MOS* identifies the exhibit as one that pertains to an Army military occupational specialty. The second component consists of two numbers and a letter, the MOS designation. The third component, a three-digit, sequentially assigned number, e.g., –001, –002, –003, uniquely identifies the exhibit.

The codes usually indicate the number of times a given MOS has been evaluated. For example, three exhibits appear for MOS 12B. The OEC I.D. numbers for the three exhibits are MOS–12B–001, MOS–12B–002, and MOS–12B–003. The oldest version of the MOS, the first to be evaluated, is assigned -001 as the last three characters, and successive versions are numbered consecutively. Enlisted MOS exhibits, then, are organized first by the two-digit numbers in the MOS designation (from 00 to 99), then by the letter in the MOS designation (from A to Z), and finally by the number assigned to the evaluation.

Title(s)

The official Army title of the MOS during the period of the exhibit dates is provided. If the title changed during that period, the newer title is given first and the older title is given in parentheses on the next line.

MOS Designation(s)

The five-character codes that identify the MOS and each of its skill levels follow the title.

Exhibit Dates

This item in the exhibit provides the start and end dates for which the exhibit is effective, expressed by month and year.

It is extremely important for the user to verify the precise time period during which a soldier or veteran held an MOS so that the correct enlisted exhibit can be located. Sometimes the time period that a person held an MOS skill level will span more than one exhibit for the MOS; the user should then exercise his or her own judgment in deciding which exhibit is most appropriate to use.

The exhibit dates item includes a start date, an end date, and, in some exhibits, the statement, "Pending evaluation." Each is explained more fully in the paragraphs that follow.

I.D. Number. A code number assigned by OEC to identify each MOS exhibit.

MOS–81C–001

CARTOGRAPHIC SPECIALIST
(CARTOGRAPHIC DRAFTSMAN)

Title. The official Army title of the MOS during the period of the exhibit dates. If the title changed during that period, the previous title is in parentheses.

MOS Designation. The five-character codes that identify the MOS and its skill levels. An MOS may have as many as five skill levels or as few as one.

81C20
81C30
81C40
81C50

Exhibit Dates: 10/74–2/77

Exhibit Dates. Start and end dates by month and year. All start dates for enlisted MOS's are 10/73 at the earliest. When an end date is given, either the MOS was discontinued and an explanation is provided, or the MOS changed and another exhibit will follow for the MOS (e.g., MOS 81C–002). When the term "Present" appears as the end date it indicates that the MOS still exists and the exhibit is current as of October 1977. Some exhibits will end here with the phrase "Pending evaluation" following the dates.

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 811 (Drafting)

Career Management Field. Two digits and a title designating a group of related MOS's; if divided into subfields (three digits and a title), the subfield is also provided. (See Appendix C.) When a person has held more than one MOS in the same career management field or subfield, the user should be alert to the possibility of overlapping recommendations.

Description

Summary: Supervises or performs cartographic drafting activities, compilation or revision of planimetric and topographic maps, or construction of scale models of terrain. *Skill Level 20:* Draws or scribes cultural, topographic, hydrographic, or other features on drawings, transparent overlays, and scribing surfaces for reproduction of maps. NOTE: May have progressed to 81C20 from 81A10 (General Draftsman). *Skill Level 30:* Able to perform the duties required for Skill Level 20; compiles and revises planimetric and topographic maps. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises cartographic drafting, map compiling, or model making activities. NOTE: May have progressed to 81C40 from 81C20, 81C30, 81E20 (Illustrator), or 81Q20 (Terrain Intelligence Analyst). *Skill Level 50:* Able to perform the duties required for Skill Level 40; plans, coordinates, administers, and supervises activities pertaining to the compiling, preparation, and revision of topographic and hydrographic maps from aerial photographs and other data. NOTE: May have progressed to 81C50 from 81C40 or 81Q20 (Terrain Intelligence Analyst).

Description. A summary description applying to all skill levels and a specific description for each skill level. Provides information about the duties performed and the qualifications required for proficiency in the MOS. Prerequisite MOS's and patterns of normal career progression among MOS's are noted so that the user may identify instances of overlapping recommendations.

Recommendation. By skill level. Only the recommendation for the highest skill level held should be used; skill-level recommendations should not be added. Educational credit is expressed in semester hours and recommended in four possible categories: vocational certificate; lower-division baccalaureate/associate degree; upper-division baccalaureate; and graduate degree.

Advanced standing in an apprentice training program, when recommended, is expressed in clock hours of experience and contact hours of related instruction. For example, the apprenticeship recommendation in the exhibit MOS–22K–001 at skill level 40 is: "In an electronic technician apprentice training program, 1,200 clock hours of experience and 250 contact hours of related instruction (3/75)."

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in cartography, 3 in mechanical drawing, and 3 in aerial photographic interpretation, for a total of 12 semester hours (12/75).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in cartography, 4 in photogrammetry, 3 in mechanical drawing, and 3 in aerial photographic interpretation, for a total of 16 semester hours (12/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in cartography, 4 in photogrammetry, 3 in mechanical drawing, 3 in aerial photographic interpretation, and 3 in introduction to management, for a total of 19 semester hours (12/75).

Date of evaluation. By month and year. Follows the recommendation for each skill level.

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 6 semester hours in cartography, 4 in photogrammetry, 3 in mechanical drawing, 3 in aerial photographic interpretation, 3 in introduction to management, 3 in personnel supervision, and 3 for field experience in management, for a total of 25 semester hours (12/75).

Important: Read entire MOS exhibit before awarding educational credit or advanced standing in an apprentice training program.

Figure 2. *Sample Enlisted MOS Exhibit.*

Start Dates. Most start dates are 10/73, the date of publication of the current Army regulation governing the enlisted MOS classification system. No enlisted MOS exhibit has a start date earlier than 10/73 because ACE does not have the necessary information to verify the scope of MOS's as they may have existed earlier than 10/73.

End Dates. The end date in many MOS exhibits is expressed with the term, "Present," indicating that the MOS still exists and the exhibit is current as of October 1977. A month and year given as an end date identifies MOS's that were discontinued or that have undergone sufficient change to warrant a new ACE evaluation. When an MOS has been discontinued, an explanatory note follows the end date. When an MOS requires a new evaluation, the term, "Present," is replaced by a specific end date, and an additional exhibit is established for the changed MOS. The exhibit dates for the new exhibit establish continuity with the previous exhibit. For example, if the end date for the first exhibit was 8/75, the start date for the next exhibit would be 9/75.

Pending Evaluation. The supplement also introduces a different exhibit format for MOS's that are pending evaluation. Such exhibits include only the OEC I.D. number, the MOS title, the MOS designations, and the exhibit dates. The exhibit dates item includes the statement, "Pending evaluation."

These "abbreviated" exhibits were added to identify the evaluation status of MOS's that are currently in use in the enlisted MOS classification system and that ACE intends to evaluate within the next year. Users should note that the absence of an enlisted MOS from the 1977 supplement indicates that ACE has not evaluated the MOS *and has no plans to do so.* Inquiries about the evaluation status of an MOS should be directed to the OEC Information Service (see p. xxiii).

Career Management Field

The career managment field, identified by two digits and a title, is provided to help users identify enlisted MOS's that may be related. For example, if the Army records of a given soldier or veteran show that he or she has held more than one MOS in the same career management field or subfield, there may be some duplication of the skills, competencies, and knowledge represented and an overlapping of the credit and apprenticeship recommendations for the MOS's. To determine the nature and extent of any overlapping of learning represented by MOS's in the same career management field or subfield, the user should scrutinize the descriptions provided in the MOS exhibits and refer to the brief descriptions of career management fields and subfields contained in Appendix D. (See also, "Duplication of Recommendations," p. xxii.)

Descriptions

Together, the MOS summary descriptions and skill-level descriptions provide the user with essential information about the duties performed and the qualifications required for proficiency in the MOS. The descriptions not only indicate the rationale behind a given recommendation, which assists in comparing MOS exhibits, but also provide information that can be used as a starting point should further assessment of the learning of a soldier or veteran be warranted.

The Summary Description. This statement describes the MOS duties and qualifications in a broad, general way that applies to all skill levels of the MOS. In some instances, the summary also indicates prerequisite MOS's.

The Skill-Level Descriptions. The skill-level descriptions outline the skills, competencies, and knowledge required for proficiency at each skill level. The descriptions are similar to the learning outcome statements of postsecondary courses and programs of study. A skill-level description normally states the prerequisite skill level within the MOS. For some skill levels, particularly Skill Levels 40 and 50, the description may also refer to another MOS or other MOS's that an individual may have previously held.

Special Notes in Enlisted MOS Descriptions. In some MOS exhibits, the description contains a special note to indicate patterns of normal career progression. A special note in the summary description normally refers to prerequisite or entry-level skills that are usually gained through holding another MOS. A special note in a skill-level description usually refers to MOS's that are closely related to the skill level because of normal patterns of career progression; that is, a person may have progressed through one or more MOS's that are closely related to the MOS in the exhibit. The special notes alert users to that possibility and identify those MOS's that may appear on a person's Army records and that may represent learning that overlaps with the MOS in the exhibit. (See "Duplication of Recommendations," p. xxii.)

Recommendations

A recommendation, including the date of evalua-

tion, is provided for each skill level of the MOS. A recommendation has three basic elements: the category, the amount, and the area. A recommendation for educational credit specifies the category of credit, the number of semester hours recommended, and the appropriate subject area, program of study, or discipline in which the credit might be applied. A recommendation for advanced standing in an apprentice training program specifies apprentice or journeyman level, the program or trade, and the number of clock hours of experience and the number of contact hours of related instruction recommended. Each skill-level recommendation is followed by the date of the evaluation, expressed by month and year.

Users should read the entire MOS exhibit in order to view a given skill-level recommendation in its proper perspective. NOTE: Evaluators intended that when an individual seeking competency recognition has held more than one skill level in the same MOS, *only the recommendation for the highest skill level held should be used.* Therefore, users should *not* add the recommendations for skill levels within an MOS. By evaluating each skill level separately, evaluators have accounted for the cumulative effect of the skills, competencies, and knowledge required for proficiency as the soldier progresses to higher skill levels. Users should also note that they may apply the recommendations to subject areas, disciplines, course titles, programs, and trades different from those given in the recommendation. To award educational credit or advanced standing in an apprentice training program based on these recommendations, see the sections entitle "Elements of the Recommendations" and "Using the Recommendations."

ARMY WARRANT OFFICER MOS's

The following paragraphs provide background information on Army warrant officer MOS's and describe the warrant officer MOS classification system and the procedures used by the Army to select warrant officers and evaluate their MOS skills and knowledge.

The Army Warrant Officer MOS Classification System

Army warrant officers are highly skilled technicians. They are normally assigned to middle management or administrative positions that require highly specialized or technical skills and knowledge, and the supervision of enlisted technical specialists.

The warrant officer MOS classification system currently includes approximately 60 MOS's grouped into 13 career fields. Each warrant officer MOS represents a set of duties and qualifications that are highly consistent from one duty assigment to another.

Warrant officer MOS's are normally identified by *at least* four characters (three numbers and a letter, e.g., 214E). **Figure 3** shows the elements of a warrant officer MOS designation. Unlike enlisted MOS's, warrant officer MOS's consist of four characters, not three, and do not have skill levels.

As shown in the figure, a warrant officer's occupational qualifications may be expressed with as many as nine characters, but because the last five characters indicate special qualifications that are variable, the learning they represent is not evaluated. Only the skills, competencies, and knowledge represented by the *first four characters* are evaluated by ACE. The fifth character, a number or a letter, designates a Special Qualifications Identifier (SQI); when a warrant officer has not been awarded an SQI, the fifth character is zero ("0"). The sixth and seventh characters (a number and a letter) are an Additional Skill Identifier (ASI) that relates a specific occupational skill or item of equipment to an MOS. The eighth and ninth characters represent competency in a specific foreign language.

Users may wish to conduct an individual assessment to grant credit for the additional learning represented by the last five characters. Because these additional characters are frequently awarded on the basis of successful completion of formal courses, the user may refer to the appropriate formal course recommendations in the *Guide*. Warrant officer Special Qualifications Identifiers are described in **Appendix E**; Additional Skill Identifiers, in **Appendix F**. Readers should note that warrant officer SQIs and ASIs are *not* the same as enlisted SQIs and ASIs (described in Appendixes B and C, respectively).

There are four grades of warrant officers: Warrant Officer, W–1 (WO1), Chief Warrant Officer, W–2 (CW2), Chief Warrant Officer, W–3 (CW3, and Chief Warrant Officer, W–4 (CW4). The grades reflect salary increases and are normally indicative of the length of time a person has served as a warrant officer. However, warrant officer grades do not signify differences in job duties. A position requiring a warrant officer may be filled by any qualified warrant officer, WO1 to CW4.

Warrant Officer Selection and Evaluation

The procedures used in selecting warrant officers

Skills, Competencies, and Knowledge Evaluated								
1st Character	2nd Character	3rd Character	4th Character	5th Character	6th Character	7th Character	8th Character	9th Character
number 0–9	number 0–9	number 0–9	letter A–Z	"0" number or letter	number	letter	letter	letter
Military Occupational Specialty (MOS)				Special Qualifications Identifier (SQI)	Additional Skill Identifier (ASI)		Language Identification Code (LIC)	
				See Appendix E	*See* Appendix F		Normally assigned after completion of Defense Language Institute course or achieving a comparable score on a competency examination. Refer to formal course recommendations.	
				May be assigned on the basis of successful completion of a formal course. Refer to formal course recommendations.				

Figure 3. *The Warrant Officer MOS Structure.*

and evaluating their MOS skills and knowledge are different from those used for enlisted soldiers.

Selection. Warrant officers are appointed by the Secretary of the Army. Warrant officer vacancies are routinely announced, and interested persons undergo a competitive application process. Most applicants have had Army enlisted service experience, but such experience is not required.

To qualify for appointment, applicants must meet several criteria. For ACE purposes, the relevant criteria are:

1. Achieve a standard score of 110 or higher on the Aptitude Area General Technical Test of the Army Classification Battery or the Army Qualification Battery (this score is also required for commissioned officer applicants).
2. Demonstrate understanding of and proficiency in the English language.
3. Have sufficient education and practical experience to ensure outstanding technical ability in the MOS for which application is being made.
4. Be a high school graduate or the equivalent and, when the MOS requires more than a high-school-level education, meet the additional education requirement for the specific MOS. (Two years of college or the equivalent is the desired goal for Regular Army warrant officers.)

In general, selected candidates receive a direct appointment. There are some exceptions—aviator, bandmaster, and certain air defense missile maintenance technicians—where the person must also successfully complete a warrant officer candidate course before being appointed.

Evaluation. Under the present evaluation system, each warrant officer is normally evaluated at least once a year. The evaluation is conducted by three commissioned officers who serve as rater, endorser, and reviewer. Each performs independently. The rater, the warrant officer's immediate supervisor, completes the full evaluation report. The evaluation is then examined by the endorser, the officer who supervises the rater. The endorser verifies the accuracy of the evaluation and may add comments or express disagreement. The reviewer, the officer who supervises the endorser, insures that the evaluation report has been accurately and properly completed. The commanding officer insures that each rater, endorser, and reviewer is fully qualified and that evaluations are based on the closest possible knowledge and observation of the warrant officer's job performance.

Warrant officer evaluations focus on technical competence in the MOS. Raters assign "adjectival" and numerical ratings to each of several important duty areas. They select adjectives to describe the quality of performance from a prescribed list that ranges from "inadequate" to "outstanding". They then assign a numerical score consistent with each adjectival rating, further distinguishing the rated warrant officer's performance within the adjectival range. The adjectives, with their numerical ranges and brief definitions, are:

Outstanding (70–68)—denotes the highest quality performance of duty and professional competence. It represents effectiveness rarely seen in the warrant officer's grade and experience level.

Superior (67–57)—denotes high-quality performance and competence attained by few warrant officers.

Excellent (56–36)—denotes above-average performance and effectiveness.

Effective (35–15)—denotes normal performance expected of warrant officers in a given grade and experience level.

Marginal (14–4)—denotes low-quality performance and competence and indicates motivational deficiencies or weaknesses.

Inadequate (4–0)—denotes unacceptable performance.

The ratings are recorded on an Officer Evaluation Report (OER), Department of the Army Form 67–7, which also contains a description of the specific functions, duties, and tasks that the rated warrant officer is required to perform during the assignment covered by the OER. Each report provides an appraisal of the rated warrant officer's professional attributes, quality of perfomance, and potential demonstrated during a specific period while in a particular duty assignment. Complete files of each warrant officer's OERs are maintained in the Military Personnel Center (MILPERCEN), where all OERs are reviewed for accuracy and completeness.

The rated warrant officer also reviews the completed OER and may appeal the evaluation if he or she believes it to be inaccurate. OERs with low scores adversely affect a warrant officer's opportunities for promotion and may lead to elimination from the Army or to mandatory retirement.

Further information on the warrant officer MOS classification system and on warrant officer selection and evaluation may be obtained by contacting the OEC Information Service (see p. xxiii).

HOW TO LOCATE AND READ A WARRANT OFFICER MOS EXHIBIT

The 1977 supplement introduces more than 70 warrant officer MOS exhibits. However, because the evaluation of warrant officer MOS's began relatively recently, in April 1977, only about one-third of the MOS's currently in the warrant officer classification system have been evaluated. Approximately two-thirds of the exhibits, then, state that the MOS is pending evaluation, meaning that ACE intends to schedule the MOS for evaluation within a year.

Like the enlisted MOS exhibits, warrant officer MOS exhibits are listed by MOS designation. Each warrant officer MOS in the supplement has only one exhibit, which can easily be found when the warrant officer MOS designation is known. When the title of the MOS is known, the exhibit can be found by referring to the **Army Occupational Title Index**.

Each exhibit for an evaluated warrant officer MOS normally includes the OEC I.D. number, the MOS title(s), the MOS designation, the effective dates of the exhibit, information regarding the enlisted MOS's that may have previously been held, a description of the duties performed and the qualifications required for the MOS, and the recommendation and date of evaluation. A sample exhibit for a warrant officer MOS is provided in **Figure 4**. A detailed explanation of each item in a warrant officer MOS exhibit follows.

OEC I.D. Number

A ten-character code uniquely identifies each exhibit. Each warrant officer MOS exhibit has an *OEC I.D. Number* similar to those used for enlisted MOS exhibits. The only difference is that the middle component of the warrant officer I.D. number consists of *three* numbers and a letter. An example of a warrant officer MOS exhibit I.D. number is MOS–271A–001.

In the future, when a warrant officer MOS changes and requires another evaluation, a new exhibit, with an I.D. number ending in –002, will be created. Thus, multiple exhibits for a single MOS will appear consecutively. The last exhibit for an MOS, the exhibit ending in the highest number, will pertain to the most current version of the MOS.

Title(s)

The official Army title of the MOS during the period of the exhibit dates is provided. If the title changed during that period, the newer title is given first and the older title is given in parentheses on the next line. NOTE: A title in the exhibit may be different from the title that appears on the person's Army records. The title listed in the exhibit is the title of the MOS when the fifth character is zero. When the fifth character is a letter or number other than zero, the title on a person's records may be the title of the Special Qualifications Identifier (refer to Appendix E).

MOS Designation

The MOS designation consists of the four-character warrant officer MOS designation plus the neutral fifth character, zero ("0"). The zero is added to remind the user that the MOS evaluation does not include the evaluation of learning associated with Special Qualifications Identifiers (SQIs). When a person's MOS designation includes an SQI, signified by a number or a letter as the fifth character, the user may wish to conduct an individual assessment

to determine whether additional credit may be granted for that learning (refer to Appendix E).

In some warrant officer MOS exhibits, the MOS designation is followed by a four-digit number in parentheses. The number is the MOS designation that was used before the present warrant officer MOS classification system was adopted in June 1961. It is provided because some warrant officer's records may show the old number.

Exhibit Dates

This item provides the start and end dates for which the exhibit is effective, expressed by month and year. The start dates vary considerably for each warrant officer MOS exhibit. Each start date reflects a historical tracing of the skills, competencies, and knowledge required for proficiency in the MOS. The end date for all warrant officer MOS exhibits in the 1977 supplement is given as "Present," indicating that the exhibit is current as of October 1977. Many warrant officer MOS exhibits end with this item; instead of specific dates, the term, "Pending evaluation," appears.

Career Pattern

This item lists the enlisted and warrant officer MOS's that a person may have held before being assigned the MOS in the exhibit. The user should be aware of the relationship between these enlisted and warrant officer MOS's and the MOS in the exhibit. The skills, competencies, and knowledge described in the exhibit may overlap those required for performance in "previously held" MOS's. Users should therefore be alert to the possibility of duplication between the credit recommendation for the MOS described in the exhibit and those for the "previously held" MOS's. (See "Duplication of Recommendations," p. xxii.)

Description

The description provides the user with essential information about the duties performed and the qualifications required for proficiency in the MOS. It indicates the rationale behind a given credit recommendation and provides information that can be used as a starting point should the user wish to conduct further assessment of the learning a warrant officer or veteran has acquired. The description is also useful in making decisions about how much credit to grant when credit recommendations from more than one learning experience appear to duplicate each other.

Recommendation

The recommendation is the last item in the exhibit. The recommendation contains the same three basic elements that enlisted MOS recommendations contain: the category, the amount, and the subject area. Recommendations for warrant officer MOS's are limited to recommendations for educational credit. No warrant officer MOS's have been evaluated for advanced standing in apprentice training programs because warrant officer duties are administrative and supervisory in nature. The last item in the recommendation is the date the MOS was evaluated, expressed by month and year.

Users should read the entire MOS exhibit in order to view the credit recommendation in its proper perspective. For additional information on awarding educational credit based on the recommendations, see "Elements of the Recommendations" and "Using the Recommendations."

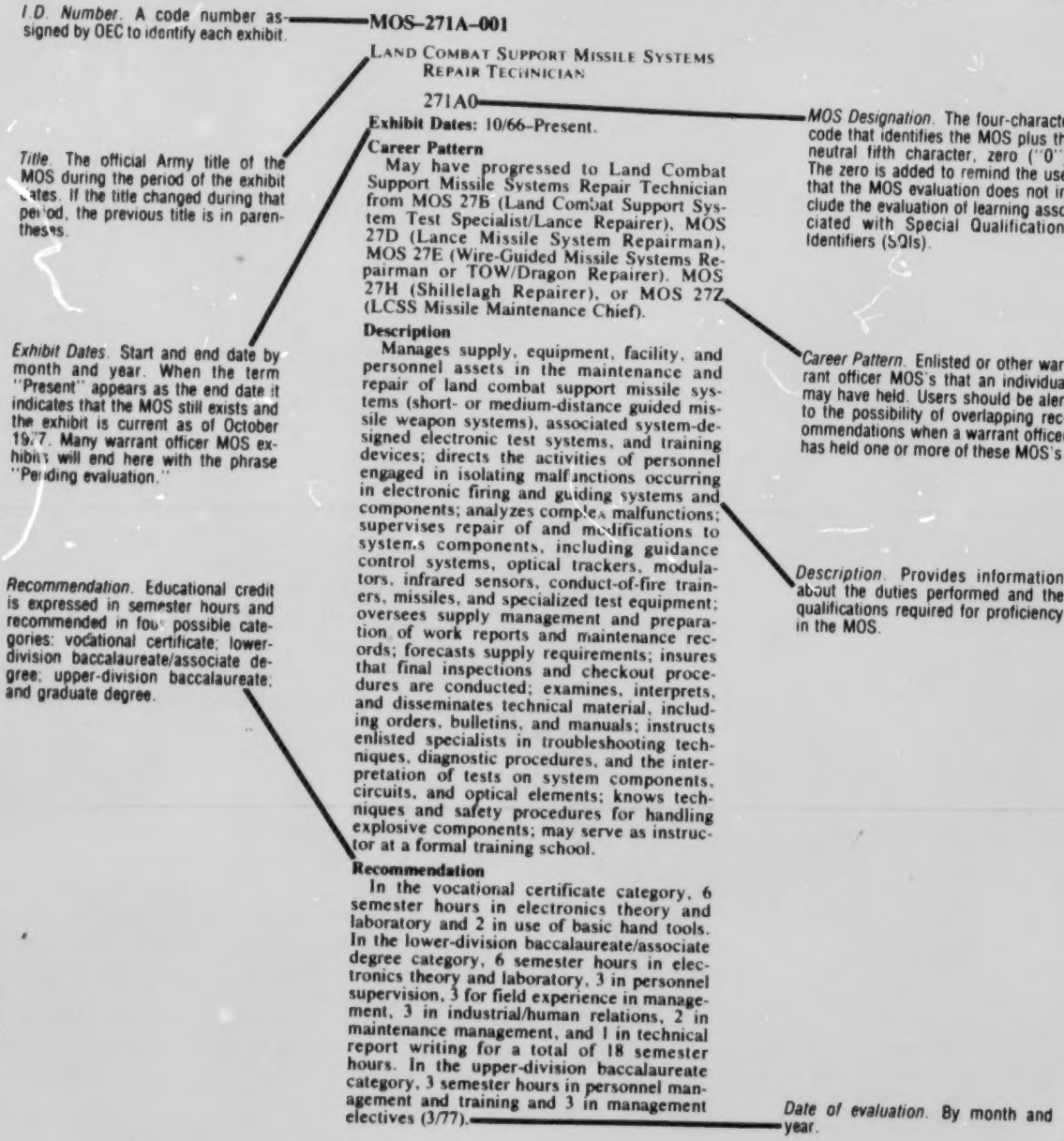
ELEMENTS OF THE RECOMMENDATIONS

In order to interpret the exhibits correctly, users must become familiar with the definitions and guidelines the evaluators used in formulating the recommendations. The following paragraphs describe and define categories of educational credit, the semester hour standard, categories of apprentice training, clock hours of occupational experience, and contact hours of related instruction.

Categories of Credit

Educational credit is a concept used by postsecondary institutions to quantify and record a student's successful completion of a unit of study. Postsecondary education consists of courses and programs of instruction for persons who are high school graduates or the equivalent, or who are beyond compulsory school age. ACE evaluators utilize the following categories of educational credit when formulating credit recommendations.

Vocational Certificate. This category describes course work of the type normally found in certificate or diploma (nondegree) programs that are usually a year or less in length and designed to provide students with occupational skills. This course work can also be found in curricula leading to associate degrees in applied science. Course content is special-


I.D. Number. A code number assigned by OEC to identify each exhibit.
MOS–271A–001
LAND COMBAT SUPPORT MISSILE SYSTEMS REPAIR TECHNICIAN
271A0
MOS Designation. The four-character code that identifies the MOS plus the neutral fifth character, zero ("0"). The zero is added to remind the user that the MOS evaluation does not include the evaluation of learning associated with Special Qualifications Identifiers (SQIs).
Title. The official Army title of the MOS during the period of the exhibit dates. If the title changed during that period, the previous title is in parentheses.
Exhibit Dates: 10/66–Present.
Career Pattern
May have progressed to Land Combat Support Missile Systems Repair Technician from MOS 27B (Land Combat Support System Test Specialist/Lance Repairer), MOS 27D (Lance Missile System Repairman), MOS 27E (Wire-Guided Missile Systems Repairman or TOW/Dragon Repairer), MOS 27H (Shillelagh Repairer), or MOS 27Z (LCSS Missile Maintenance Chief).
Career Pattern. Enlisted or other warrant officer MOS's that an individual may have held. Users should be alert to the possibility of overlapping recommendations when a warrant officer has held one or more of these MOS's.
Exhibit Dates. Start and end date by month and year. When the term "Present" appears as the end date it indicates that the MOS still exists and the exhibit is current as of October 1977. Many warrant officer MOS exhibits will end here with the phrase "Pending evaluation."
Description
Manages supply, equipment, facility, and personnel assets in the maintenance and repair of land combat support missile systems (short- or medium-distance guided missile weapon systems), associated system-designed electronic test systems, and training devices; directs the activities of personnel engaged in isolating malfunctions occurring in electronic firing and guiding systems and components; analyzes complex malfunctions; supervises repair of and modifications to systems components, including guidance control systems, optical trackers, modulators, infrared sensors, conduct-of-fire trainers, missiles, and specialized test equipment; oversees supply management and preparation of work reports and maintenance records; forecasts supply requirements; insures that final inspections and checkout procedures are conducted; examines, interprets, and disseminates technical material, including orders, bulletins, and manuals; instructs enlisted specialists in troubleshooting techniques, diagnostic procedures, and the interpretation of tests on system components, circuits, and optical elements; knows techniques and safety procedures for handling explosive components; may serve as instructor at a formal training school.
Description. Provides information about the duties performed and the qualifications required for proficiency in the MOS.
Recommendation. Educational credit is expressed in semester hours and recommended in four possible categories: vocational certificate; lower-division baccalaureate/associate degree; upper-division baccalaureate; and graduate degree.
Recommendation
In the vocational certificate category, 6 semester hours in electronics theory and laboratory and 2 in use of basic hand tools. In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics theory and laboratory, 3 in personnel supervision, 3 for field experience in management, 3 in industrial/human relations, 2 in maintenance management, and 1 in technical report writing for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 in management electives (3/77).
Date of evaluation. By month and year.

Important: Read entire exhibit before awarding educational credit.

Figure 4. *Sample Army Warrant Officer MOS Exhibit.*

ized and the accompanying shop, laboratory, or similar practical components emphasize procedural more than analytical skills.

Lower-Division Baccalaureate/Associate Degree. This category describes course work of the type normally found in the first two years of a baccalaureate program and in programs leading to Associate in Arts, the Associate in Science, or the Associate in Applied Science degree. The instruction stresses development of analytical abilities at the introductory level. Verbal, mathematical, and scientific concepts associated with an academic discipline are introduced, as are basic principles. Occupationally oriented courses in this category are normally designed to prepare a student to function as a technician in a particular field.

Upper-Division Baccalaureate. This category describes courses of the type found in the last two years of a baccalaureate program. The courses involve specialization of a theoretical or analytical nature beyond the introductory level. Successful performance by students normally requires prior study in the area.

Graduate Degree. This category describes courses with content of the type found in graduate programs. These courses often require independent study, original research, critical analysis, and the scholarly and professional application of the specialized knowledge or discipline. Students enrolled in such courses normally have completed a baccalaureate program.

Semester Hour Standard

The MOS recommendations are based on the skills, competencies, and knowledge learned, as demonstrated through proficiency in a given enlisted MOS skill level or in a given warrant officer MOS, without reference to how much time elapsed during the learning process. The semester hour is used as a standard to express how many semester hours of appropriate course work a student would normally complete to attain the same learning outcomes or attest to the same level of competency.

In determining semester hour recommendations, evaluators use the following guidelines:

1. One semester credit hour for the equivalent of 15 hours of classroom contact plus 30 hours of outside preparation; or
2. One semester credit hour for the equivalent of 30 hours of laboratory work plus necessary outside preparation, normally expected to be 15 hours; or
3. One semester credit hour for the equivalent of not less than 45 hours of shop instruction (contact hours).

Apprentice Training

Apprentice training is the composite series of progressively more difficult learning experiences in the technology and skills of a tradesman. Apprentice training may be identified in clock hours or years of reasonably continuous on-the-job training and in contact hours of related instruction. On-the-job training and work experience focus on the performance of basic skills under the direct supervision of a journeyman. Related and supplemental instruction is normally closely correlated with on-the-job training, and the subject matter stresses practical application of technology. An *apprentice* is a person who is engaged in learning a trade by working with, and under the direct supervision of, a qualified journeyman in all phases of the trade for a specified period of time. A *journeyman* is a tradesman who has satisfactorily completed an apprentice training program or achieved proficiency in a given industry and who works without direct job supervision.

Evaluations resulting in apprenticeship recommendations have been restricted to enlisted MOS's in the areas of electronics/electricity and mechanical maintenance. Other apprenticeship-related MOS's have been evaluated only for postsecondary educational credit because the Army has already registered several apprenticeship programs with the Bureau of Apprenticeship and Training, U.S. Department of Labor.

Clock Hours and Contact Hours

An MOS recommendation for advanced standing in an apprentice training program is stated in clock hours of occupational experience and contact hours of related instruction. *Clock hours* are based on hours worked at a trade; *contact hours* are based on hours spent in the presence of a qualified instructor.

The enlisted MOS recommendations are based on the skills, competencies, and knowledge learned, as demonstrated through proficiency in a given MOS skill level, without reference to how much time elapsed during the learning process. Clock hours and contact hours are used to express how much of an apprentice training program an apprentice would normally complete to attain the same learning outcomes or attest to the same level of competency.

USING THE RECOMMENDATIONS

Postsecondary education officials, apprenticeship and training officials, and employers may use the recommendations in this book to place Army soldiers and veterans in postsecondary programs of study, apprentice training programs, and jobs. The recommendations are advisory. Users may modify the recommendations in accordance with their own policies and practices.

Postsecondary education officials may wish to modify the recommendations to suit the specific program of study the person is pursuing at the institution. In determining how much credit is appropriate, the institution official should consider the student's educational objective, as well as institutional requirements for graduation. Postsecondary education officials may also wish to grant additional credit to recognize the learning a soldier or veteran has achieved beyond the minimum requirements for proficiency in an MOS, including nonmilitary learning experiences. Institutions should assess such additional learning achievements before granting credit. Postsecondary education officials are encouraged to refer to the ACE statement, "Awarding Credit for Extrainstitutional Learning," available from the ACE Office on Educational Credit (see OEC Information Service, p. xxiii).

Apprenticeship and training officials may wish to modify an MOS recommendation to suit the specific training program in which the veteran is being placed. Additional learning the person may have acquired beyond the minimum requirements for proficiency in the MOS may also affect the placement of the individual in an apprentice training program.

Employers may find the MOS exhibits helpful in hiring and placing Army veterans in jobs, in much the same way they rely on postsecondary transcripts as an indication of skills and competencies. The MOS descriptions enable employers to compare a veteran's MOS experience with the qualifications and requirements for jobs. The recommendations relate MOS-related learning to postsecondary courses and curricula and, for some enlisted MOS's, to apprentice training programs.

Employers may find the MOS exhibits helpful in hiring and placing Army veterans in jobs. The MOS descriptions enable employers to compare a veteran's MOS experience with the qualifications and requirements for jobs. The recommendations correlate MOS-related learning to postsecondary courses and curricula and, for some enlisted MOS's, to apprentice training programs through which civilians normally acquire much of the same learning a soldier must acquire in order to achieve MOS proficiency.

The following paragraphs give detailed discussion on several issues pertaining to the use of the recommendations. Users must first determine which MOS or MOS's the person has held and must therefore know how to verify a person's MOS history through official military *records*. The user must confirm that the person was proficient in the MOS and is eligible for the recommendation; for enlisted MOS's, this entails interpreting the *enlisted MOS evaluation score*. Postsecondary education officials must decide which category or *categories of credit* are applicable, depending on the person's program of study. Finally, when the soldier or veteran has held more than one MOS and the user is referring to more than one exhibit, the user must be aware of the possibility of *duplication of recommendations*.

Verifying Records

Officials and employers should require the enlisted soldier, warrant officer, or Army veteran to verify that he or she has successfully held a given enlisted MOS skill level or warrant officer MOS. The soldier or veteran should present *official Army documentation*.

When scrutinizing Army records, the user should look for three basic items of information: (1) the MOS or MOS's the person has held; (2) the time period each MOS was held; and (3) indications as to whether the person was proficient in the MOS(s).

The first two items of information will help the user locate the correct exhibit or exhibits in the supplement; the third will help the user decide whether to use the recommendation in the exhibit or whether further assessment of the individual should precede competency recognition.

For enlisted soldiers, Army records may show an MOS as primary (PMOS), secondary (SMOS), additional (AMOS), or duty (DMOS); a recommendation for any type of MOS can be used, provided the individual has demonstrated proficiency in that MOS. Each MOS and skill level a person has held, relevant dates, evaluation scores, and dates of evaluation are given in Items 3 and 6 of DA Form 2–1, "Personnel Qualifications Record," *or* Item 22 of DA Form 20, "Enlisted Qualifications Record." The individual may voluntarily submit copies of DA Form 2166–5, "Enlisted Evaluation Report," which gives the supervisor's rating and comments, and USAEEC Form 10, "Enlisted Evaluation Data Report," which gives a breakdown of how the person performed on various sections of the MOS test. To determine whether an enlisted soldier demonstrated MOS proficiency, refer to "Using the Enlisted Evaluation Score," below.

For enlisted soldiers or warrant officers still in active or reserve service, a particularly useful record is the DD Form 295, "Application for the Evaluation of Educational Experiences During Military Service," which lists military and civilian courses the person has successfully completed. Although the present edition of the form was not designed to document MOS proficiency, it is acceptable when the section, "Major Service Jobs and Billets," has been completed with the following information: (1) the MOS designation, (2) the MOS title, (3) the period during which the MOS was held, (4) the MOS evaluation score, and (5) the date of evaluation. A new edition of the form is being prepared which will provide space for military occupational information. The form is completed by the person's education service officer and certified by the personnel officer at the installation.

For warrant officers, occupational history is recorded on DA Form 2–1, "Personnel Qualifications Record," *or* DA Form 66, "Officer Qualifications Record." It is also recorded on DA Form 4037, "Officer Record Brief." The person may also provide copies of the Officer Evaluation Reports completed during his or her career; this record is currently DA Form 67–7, but earlier editions of the form will have a lower number, such as 67–6. On the present edition of the Officer Evaluation Report (OER), evidence of success is a rating of "effective" (a minimum score of 15) or higher (see "Warrant Officer Selection and Evaluation," p. xiii). Earlier editions of the Officer Evaluation Report had different scales, but users who read the reports thoroughly, especially the blocks for comments, will be able to discern whether the person was considered an effective warrant officer. Users should note that many warrant officers began their Army careers as enlisted personnel; in these cases, the warrant officer may also submit his or her enlisted records.

Consistent with federal requirements, Army records must be requested by the individual. The individual should request that copies of records be sent directly to the postsecondary education official, apprenticeship or training official, or employer. Records may be obtained as follows:

Active-duty enlisted soldier or warrant officer. The Army installation to which he or she is assigned.

Army National Guard personnel. The National Guard unit to which he or she is assigned.

Army Reservist or retired personnel. The U.S. Army Reserve Component and Administrative Center (TAGO), 9700 Page Boulevard, St. Louis, Missouri 63132.

Army Veteran. General Services Administration, National Personnel Records Center (Military Personnel Records), 9700 Page Boulevard, St. Louis, Missouri 63132. The veteran may request service records by submitting U.S. Government Standard Form 180, which may be obtained from a state's veterans affairs office, the Veterans Administration, or the National Personnel Records Center.

Using the Enlisted MOS Evaluation Score

An MOS recommendation is intended to be used for placing a soldier or veteran in a program of study, apprentice training program, or job. The MOS recommendation is a statement of equivalency: the learning outcomes represented by *proficiency* in the MOS are equivalent to the learning outcomes associated with the course work, program of study, and/or apprentice training cited in the recommendation. To determine a person's eligibility for an MOS recommendation, users must first determine whether the person has demonstrated his or her MOS proficiency.

An enlisted MOS evaluation score of 70 or higher usually indicates MOS proficiency. However, as described earlier, the Enlisted Evaluation System used by the Army is undergoing change (see "The Enlisted MOS Evaluation Score," p. viii). Users must decide when to accept an enlisted MOS evaluation score as evidence of MOS proficiency and when other verification should be sought.

The decision to use a given MOS recommendation rests on the *degree of confidence* the user has that the person has demonstrated his or her proficiency in the MOS as it existed during the period of the exhibit dates. The confidence factor will normally fall in the following range:

1. *One or more composite MOS evaluation scores of 70 or higher before January 1977* (HIGHEST). A composite MOS evaluation score consists of the score on the written MOS test and the score derived from the supervisor's rating of job performance on the Enlisted Efficiency Report (EER). Sometimes it may also include a score on a performance examination. Such composite scores will have been achieved before January 1, 1977, and may be accepted with complete confidence as evidence of MOS proficiency.

2. *One "EER-only" score in combination with previous composite MOS evaluation score(s).* An "EER-only" score is based solely on the supervisor's rating on the Enlisted Efficiency Report. It is more likely to occur after January 1, 1977, the date MOS testing was suspended.

Whenever a user encounters an "EER-only" score, he or she would ask the person to submit copies of all Enlisted Efficiency Reports to the user. The EER contains a checklist for performance evaluation and space for written comments from the rater (supervisor) and the endorser (normally the commanding officer). By scrutinizing the EER(s), the user may be able to determine whether the person has indeed demonstrated proficiency in the MOS.

If the person has one or more composite MOS evaluation scores of 70 or higher, but the most recent score is an "EER-only" score, the user should review the EER. If the EER is favorable, the user may have a high degree of confidence in the person's MOS proficiency.

3. *Multiple "EER-only" scores.* A person may have several "EER-only" scores but no composite MOS evaluation score. If the EERs are favorable, the user may have some confidence in the person's MOS proficiency. The degree of confidence will depend on how consistently the person has demonstrated his or her MOS proficiency, as reflected on the EERs.

4. *One "EER-only" score.* Some soldiers may have only one evaluation score, an "EER-only" score. A single evaluation report will probably not be sufficient to confirm MOS proficiency. Further assessment may be needed.

5. *No MOS evaluation score at all during the period of the exhibit dates* (LOWEST). When a person has not been evaluated by the Army during the period of the exhibit dates, the user cannot confirm MOS proficiency without assessing the person's learning.

Users may also encounter a second type of composite MOS evaluation score, one based on a Skills Qualification Test—the replacement evaluation instrument for the written MOS tests—and an EER. The SQTs are being phased in through March 1980. Until ACE completes its study of the SQTs, users should not accept SQT-derived evaluation scores as evidence of MOS proficiency. The study results will be announced in the *OLC Newsletter.*

When a user is not confident of a person's proficiency in the MOS as presented in a given exhibit, the person's eligibility for the recommendation is at issue. The user should not apply an MOS recommendation without first confirming that the person has indeed demonstrated proficiency in the MOS. When the user cannot confirm the person's MOS proficiency on the basis of an MOS evaluation score, the user may choose to confirm the person's MOS proficiency through individual assessment.

It is hoped that the MOS descriptions will be helpful as a reference point for officials responsible for assessing an individual's MOS proficiency. When the user can confirm that the individual has attained some or all of the skills, competencies, and knowledge represented by the MOS, the ACE recommendation can be utilized or appropriately modified.

There are a wide variety of assessment techniques that officials can use, e.g., written examinations, oral examinations, committee assessment, evaluation of materials supplied by the applicant, personal interviews, performance tests, and standardized examinations such as CLEP. A combination of several techniques will usually result in a reliable assessment of an individual's learning.

Users may learn more about assessment techniques through the publications of the Council for the Advancement of Experiential Learning (CAEL), formerly the Cooperative Assessment of Experiential Learning. Two CAEL reports give particularly helpful overviews of the topic: *A Compendium of Assessment Techniques,* by Joan Knapp and Amiel T. Sharon (CAEL–11; $3.50), and *Principles of Good Practice in Assessing Experiential Learning,* by Warren W. Willingham (CAEL–27; $3.50 for a single copy, $2.00 each for ten or more). The publications may be purchased from CAEL, American City Building, Suite 403, Columbia, Maryland 21044.

Using the Credit Categories

Credit is frequently recommended in more than

one category. One reason for multiple-category recommendations is that the scope of the skills, competencies, and knowledge required for proficiency may cover several subject fields at different levels of complexity; that is, for a given MOS or MOS skill level, some subject fields may relate directly to courses normally included in vocational-certificate programs, while others may relate directly to courses normally included in upper-division baccalaureate programs. Another reason is that evaluators may decide that learning in a single subject field should receive varying amounts of credit, depending on the nature of the program to which the credit is to be applied. There are two considerations in deciding whether to combine recommendations from two or more categories.

First, *credits in more than one category—but in different subjects*—may be added as long as all the subjects are applicable to the student's educational program at the institution.

Example A:
In the lower-division baccalaureate/associate degree category, 1 semester hour in communication skills and 1 in principles of management. In the upper-division baccalaureate category, 3 semester hours in personnel management (6/75).

In Example A, 5 semester hours may be awarded if they apply to the student's program: 1 in communication skills, 1 in principles of management, and 3 in personnel management.

Second, *credits in more than one category—but in the same subject*—probably should not be added. The example below illustrates this situation.

Example B:
In the lower-division baccalaureate/associate degree category, 3 semester hours in typing and 3 in office management. In the upper-division baccalaureate category, 3 semester hours in office management and 2 for field experience in management (11/75).

In Example B, the categories may be combined, but the 3 semester hours in office management recommended in the lower-division baccalaureate/associate degree category and the 3 in office management recommended in the upper-division baccalaureate category probably should not be combined for a total of 6. Compare the information in the exhibit description with the desired outcomes of office management related courses and programs of study at your institution. Award credit based on comparison of these outcomes.

Institution officials should read the credit recommendations in all categories, as well as the MOS description, and then award credit as it best applies to the student's program of study, as determined through academic counseling.

Credit may be applied to a student's program in various ways: (1) applied to the major to replace a required course; (2) applied as an optional course within the major; (3) applied as a general elective; (4) applied to meet basic degree requirements; or (5) applied to waive a prerequisite. Credit granted by a postsecondary institution will depend on institutional policies and degree requirements.

Duplication of Recommendations

If an enlisted soldier, warrant officer, or veteran is applying for credit for more than one learning experience, the user must be aware that the recommendations might overlap somewhat, i.e., that the recommendations might cover some of the same learning. In such cases, awarding a simple total of the recommended credits could result in the award of more credit than the learning merits.

When two or more MOS recommendations are being used in awarding credit to an individual, the user should determine whether the credit recommendations overlap, and if so, to what extent. MOS credit recommendations may overlap between (1) related enlisted MOS's, (2) enlisted and warrant officer MOS's, and (3) related courses and MOS's.

Enlisted MOS recommendations will overlap when the soldier or veteran has held two or more MOS's that require related qualifications and the performance of related or similar duties. To identify overlapping enlisted MOS recommendations, compare the career management fields and career management subfields, if available. MOS's in the same career management field or subfield are probably related. Related MOS's are also noted in the summary and skill-level descriptions. To reconcile overlapping credit recommendations, compare the descriptions and recommendations for each MOS and interview the soldier or veteran to obtain additional informa-

Figure 5. *Procedure for Reconciling Duplicate Credits.*

1. Identify Army MOS's held and formal courses completed by the individual from the official military records the individual provides.
2. Locate all pertinent and available MOS exhibits and course exhibits in the *Guide*.
3. For enlisted MOS's, locate the correct skill level within each enlisted MOS exhibit; for courses, locate the correct version within each course exhibit.
4. Read and compare all the descriptions.
5. Identify the appropriate credit-category recommendation in each exhibit, on the basis of the person's program of study.
6. Read and compare all the pertinent recommendations. It may be helpful to list the amount of credit and the subject areas of each recommendation.
7. If necessary, obtain additional information from the individual through interview or further assessment.
8. When the nature and extent of the individual's learning has been identified, refer to all pertinent recommendations and make decisions on how much credit may be awarded without duplication. Credit should be awarded as appropriate to the educational goals of the individual and the institution.

tion. When the learning outcomes, courses, and credits are the same or very similar, there is overlap, and the user should modify the credit recommendations to avoid granting duplicate credit.

Users of apprenticeship recommendations may encounter a similar difficulty when recommendations for two or more enlisted MOS's are under consideration. They may wish to evaluate the individual's proficiency by performance examination before awarding advanced standing in an apprentice training program or waiving apprenticeship requirements.

Enlisted and warrant officer credit recommendations will probably overlap, because most warrant officers progress through the enlisted ranks, in enlisted MOS's directly related to warrant officer positions. Patterns of normal career progression appear in the "Career Pattern" item in warrant officer MOS exhibits. The procedure for reconciling the overlap between enlisted and warrant officer recommendations is similar to that for two or more enlisted MOS's; namely, comparing the descriptions and recommendations and interviewing the warrant officer or veteran to obtain additional information. If the learning outcomes, courses, or credits overlap, the credit recommendation should be modified.

Course recommendations and MOS recommendations will overlap when the enlisted soldier, warrant officer, or veteran has acquired his or her proficiency, or a significant portion of it, through completion of one or more formal service school courses. That is, some formal courses are MOS-producing: successful completion of the course leads to the award of a specific MOS. Other courses often supplement on-the-job training and work experience and are clearly related to the skills, competencies, and knowledge required for proficiency in a warrant officer MOS or in one or more enlisted MOS skills legels. To identify overlapping course and MOS recommendations, compare the MOS descriptions in the supplement with the course descriptions in the 1976 *Guide*. In addition, many Army course exhibits contain a cross-reference item, "Related Occupation Codes," that lists related MOS's. Related MOS's include those awarded upon completion of the course, those required as a prerequisite to the course, and those for which the course is supplementary. To reconcile the overlap in the recommendations, compare the descriptions and recommendations and interview the soldier, warrant officer, or veteran to obtain additional information. **Figure 5** illustrates the steps an official might take in determining how much credit may be awarded without duplication to an individual who has completed a number of courses and held a number of MOS's.

Users who cannot determine whether duplication exists may write or telephone the Office on Educational Credit for assistance.

OEC INFORMATION SERVICE

OEC operates an information service to assist education officials, apprenticeship and training officials, and employers in evaluating the learning experiences of military personnel. Publication of the *Guide* and the supplements is a part of that service. However, there are instances when additional assistance is needed.

When requesting a recommendation for an enlisted or warrant officer MOS, users should complete a copy of the "Request for Army Enlisted and Warrant Officer MOS Recommendations" form that appears at the back of the book. Officials should use the form to request recommendations for MOS's that are listed in the supplement as "pending evaluation." The availability of recommendations for those MOS's will be announced in the *OEC Newsletter*, which is distributed to users three times a year. In completing the request form, users should specify the *OEC I.D. number* and the MOS title. Users should also include the applicant's name on the form

if they would like the name mentioned in OEC's reply. Please check the form for accuracy before forwarding it to OEC.

It is the responsibility of the supplement user to verify from official military records that the applicant has demonstrated proficiency in the MOS or MOS's for which he or she is seeking recognition (see "Verifying Records," p. xix). When it appears that official military records will help OEC staff members in responding to an inquiry, *copies* should be attached to the letter of inquiry. *Do not send original records.*

When a recommendation or assistance in interpretation is needed urgently, the user may telephone the Office on Educational Credit. Whether inquiring by letter or telephone, however, users should always obtain information concerning MOS recommendations directly from the Office on Educational Credit, not the applicant.

Inquiries concerning *MOS recommendations* should be addressed to:

Office on Educational Credit
American Council on Education
One Dupont Circle
Washington, D.C. 20036
ATTN: MOS Evaluation Program
Telephone: (202) 833-4770

Users inquiring about *military courses* are reminded to address their requests to:

Office on Educational Credit
American Council on Education
One Dupont Circle
Washington, D.C. 20036
ATTN: Military Evaluations Program
Telephone: (202) 833-4685

Army Enlisted MOS Exhibits

MOS–00B–001

DIVER

00B10
00B20
00B30
00B40

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Summary: Supervises or performs underwater reconnaissance, demolition, repair, and salvage. *Skill Level 10:* Performs as assistant to diver, operates power-driven air compressor and electric and engine-driven winches; makes simple repairs to diving gear and equipment; applies principles of water rescue and first aid. *Skill Level 20:* Able to perform the duties required for Skill Level 10; using self-contained underwater breathing apparatus, performs reconnaissance, salvage, repair, and demolition operations; collects and reports on hydrographic conditions; makes charts and maps of underwater conditions, takes underwater photographs, and prepares beach or river intelligence reports and keeps the diving log; uses demolition techniques to clear underwater obstacles; employs sophisticated first aid treatment, particularly as related to diving operations. *Skill Level 30:* Able to perform the duties required for Skill Level 20; using surface-supplied air and diving equipment; performs underwater repair by caulking seams, patching holes, and clearing fouled equipment; directs or assists in underwater construction projects; rigs submerged objects for surfacing; employs underwater welding techniques and other special construction tools; operates decompression chamber; performs underwater inspection, estimates weight of underwater objects, and calculates method of lifting underwater material and objects. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises underwater reconnaissance, demolition, repair, and salvage in addition to scuba and standard diving activities; supervises diver's bell (or appropriate mechanical diving unit) and directs maintenance of diving equipment; interprets hydrographic charts, maps, and sketches; instructs in diving procedures and safety practices; prepares reports on diving operations.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in the use, operation, and maintenance of mechanical equipment and 2 in first aid. In the lower-division baccalaureate/associate degree category, 2 semester hours in first aid (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in the use, operation, and maintenance of mechanical equipment and 4 in first aid. In the lower-division baccalaureate/associate degree category, 3 semester hours in mapping, 3 in technical report writing, 3 in marine and oceanographic technologies, and 4 in first aid, and additional credit for detonation/demolition, and photography, on the basis of institutional evaluation, for a minimum total of 13 semester hours (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 12 semester hours in the use, operation, and maintenance of mechanical equipment, 12 in marine underwater repair and construction, and 6 in first aid, for a total of 30 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in physics, 3 in mapping, 3 in technical report writing, 6 in marine and oceanographic technologies, 6 in first aid, and 3 in human relations, and additional credit for detonation/demolition and photography on the basis of institutional evaluation, for a minimum total of 24 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 18 semester hours in the use, operation, and maintenance of mechanical equipment, 18 in marine underwater repair and construction, and 6 in first aid, for a total of 42 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in mapping, 3 in marine geography, 6 in physics, 6 in technical report writing, 9 in marine and oceanographic technologies, 6 in first aid and safety, 3 in human relations, 3 in personnel supervision, and 6 for field experience in management, and additional credit for detonation/demolition/salvage, and photography, on the basis of institutional evaluation, for a minimum total of 45 semester hours (5/76).

MOS–00C–001

DOG TRAINER

00C20
00C40

Exhibit Dates: 10/73–Present.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Summary: Trains dogs to obedience. *Skill Level 20:* Leads dogs through prescribed series of exercises; teaches dogs to obey commands; knows physical capabilities and limitations of dogs under varying conditions of terrain and climate; determines rejection or assignment to more advanced and specialized training by observing physical and psychological traits; feeds, waters, and grooms dogs; complies with established preventive medicine techniques; applies first aid and administers medicine to dogs. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the training of dogs; analyzes training for more efficient methods and techniques; assigns personnel to positions and evaluates their performance.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in veterinary science or animal science, 3 in dog training, and 3 in animal first aid, for a total of 12 semester hours (12/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in veterinary science or animal science, 3 in dog training, 3 in animal first aid, 3 in personnel supervision, and 3 in instructional techniques, for a total of 18 semester hours. In the upper-division baccalaureate degree category, 3 semester hours in field experience in management, and additional credit in management, in education, and in animal science or veterinary science on the basis of institutional evaluation (12/75).

MOS–00D–001

SPECIAL DUTY ASSIGNMENT

00D20
00D40

Exhibit Dates: 10/73–Present.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Summary: This MOS code is used to identify duty positions for special assignments; its use is approved on an individual case basis by the Headquarters of the Department of the Army. Before this code is assigned, a position must encompass duties that are highly specialized, that cannot be classified elsewhere, that do not correspond with formal military courses, and that occur so rarely and in such small numbers that establishment of a separate MOS is not practical. *Skill Level 20:* Used to identify all journeymen and technician levels of skill. *Skill Level 40:* Used to identify all leader levels of skill.

Recommendation, Skill Levels 20 and 40

Credit on the basis of institutional evaluation of the individual student seeking competency recognition (5/76).

MOS–00E–001

RECRUITER AND CAREER COUNSELOR

00E40
00E50

Exhibit Dates: 10/73–Present.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Summary: Recruits or counsels civilian and military personnel concerning Army careers. NOTE: Required to have held at least one other MOS. *Skill Level 40:* Contacts, interviews, and advises civilian and military personnel; presents formal and informal talks to individuals and groups; writes, edits, and distributes recruiting material; establishes liaison with public media; evaluates the occupational, educational, and psychological background of prospective recruits and reenlistees; administers and scores screening tests; conducts occupational or career counseling. *Skill Level 50:* Able to perform the duties required for Skill Level 40; plans, organizes, and coordinates recruitment and reenlistment programs and activities; supervises up to five Skill Level 40 personnel; trains Skill Level 40 personnel; supervises the preparation of correspondence and the keeping of files and records.

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of advertising, 3 in applied psychology, 3 in salesmanship, 3 in technical report writing or business correspondence, 3 in public speaking, 3 in records management, 3 in conference coordination, and 2 in preparation of audio-

visual materials, for a total of 23 semester hours. In the upper-division baccalaureate category, 3 semester hours in advertising media, 3 for field experience in recruiting, 2 in human relations, and 2 in vocational counseling, for a total of 10 semester hours or, as an alternative 10 semester hours for field experience in counseling and recruiting. In the graduate degree category, 1 semester hour in human relations and 3 in vocational counseling (2/75).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in advertising media, 4 for field experience in recruiting, 2 in human relations, 2 in vocational counseling, 3 in publicity release writing, 3 in office management, and 3 in personnel management, for a total of 20 semester hours, or as an alternative, 14 semester hours for field experience in counseling and recruiting, 3 in office management, and 3 in personnel management, for a total of 20 semester hours. In the graduate degree category, 3 semester hours in office administration, 2 in vocational counseling, and 1 in human relations, for a total of 6 semester hours (2/75).

MOS–00F–001

DRILL SERGEANT

00F40

00F50

Exhibit Dates: 10/73–2/75. (Effective 3/75, MOS 00F was discontinued and its functions were incorporated into Special Qualifications Identifier X, Drill Sergeant.)

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Summary: Is a group organizer and leader in various public and special interest activities; conducts classes to develop basic skills in group living and to generate group cohesiveness; plans and coordinates short-term and long-range educational and recreational activities of groups; supervises subordinate personnel; prepares oral and written reports; maintains records. *Skill Level 40:* Prepares lesson plans and training schedules; assists in determining operational policies and procedures; teaches, guides, observes, and evaluates personnel in training; plans and coordinates billeting, food, and transportation arrangements for trainees. *Skill Level 50:* Able to perform the duties required for Skill Level 40; plans and coordinates all instructional and operational activities of the Drill Sergeant School; applies prescribed training management policies and procedures to insure the most economical and efficient use of manpower, facilities, equipment, time, and money.

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in personnel supervision, 3 in records administration, and 3 for field experience in education, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, 3 semester hours in institutional management, 3 in communication skills, and 3 for field experience in education, for a total of 9 semester hours (2/75).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in personnel supervision, 3 in records administration, and 6 for field experience in education, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, 3 semester hours in institutional management, 3 in communication skills, and 6 for field experience in education, for a total of 12 semester hours (2/75).

MOS–00H–001

ENLISTED AIDE

00H20

00H50

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 00H was discontinued and its functions were incorporated into MOS 94B, Food Service Specialist.)

Career Management Field: 94 (Food Service).

Description

Summary: Serves on the personal staff of a general officer; able to perform the duties required for 94B20 (Food Service Specialist). *Skill Level 20:* Performs duties that aid a general officer in the performance of official and military responsibilities, including social responsibilities; assists in planning, arranging, and preparing for official social functions and activities; plans seating arrangements; arranges flowers; recommends menus and orders foodstuff; sets table; cooks and prepares foods, desserts, and beverages; serves meals; receives and keeps records of telephone calls, makes appointments, provides administrative assistance, and receives guests and visitors; assists in maintaining quarters; cares for military uniforms and equipment. *Skill Level 50:* Able to perform the duties required for Skill Level 20; as the supervisor of a large household staff, supervises and coordinates the activities of the enlisted aides.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in kitchen operations, 3 in food service operations, 3 in catering, 3 in menu planning, 3 in estimating and purchasing foods, 2 in record keeping, 2 in food decorating, and 1 in first aid for a total of 26 semester hours (5/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 20. In the upper-division baccalaureate category, 3 semester hours in human relations, 3 in introduction to management, 6 for field experience in management, and 6 in industrial arts education (food service), for a total of 18 semester hours (5/76).

MOS–00J–001

CLUB MANAGER

00J50

Exhibit Dates: 10/73–Present.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Oversees the business management of a club, including all financial operations, food and beverage services, social and recreational activities, alcoholic beverage stores, swimming pools, hotel or motel operations, golf courses, and related services and activities; implements policies concerning the use of facilities, membership, dues, credit, guests, and employee compensation; hires, trains, supervises, and discharges employees. NOTE: Required to have attained MOS 71L40 (Administrative Specialist), 73C40 (Finance Specialist), 73D40 (Accounting Specialist), 94B40 (Food Service Specialist), 03B40 (Performing Arts Specialist), or 94Z50 (Food Service Supervisor).

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in business mathematics, 3 in business communications, 3 in office management, 3 in office accounting, 3 in hotel/motel management, 3 in food and beverage purchasing and inventory control, 3 in food preparation, and 3 in personnel supervision, for a total of 24 semester hours. In the upper-division baccalaureate category, credit on the basis of institutional evaluation (3/75).

MOS–00U–001

RACE RELATIONS/EQUAL OPPORTUNITY SPECIALIST

00U20

00U40

00U50

Exhibit Dates: 10/73–Present.

Career Management Field: 00 (Exceptional Management Specialties), subfield 000 (Special Assignment).

Description

Summary: Plans, organizes, and coordinates activities of community organizations and groups concerned with social problems. NOTE: Required to have held at least one other MOS. *Skill Level 20:* Administers programs designed to study, analyze, and make recommendations for improvement of social conditions for individuals or small communities. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor and trainer of Skill Level 20 personnel; coordinates activities of several agencies or groups; writes reports; directs programs in medium-sized communities. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager; coordinates the activities of program directors (Skill Level 40 personnel); conducts programs in large communities; trains subordinates; conducts conferences, leads discussions, and gives lectures on race relations/equal opportunity programs; assists in establishing policies and procedures.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in communication skills and 6 semester hours in social sciences. In the lower-division baccalaureate/associate degree category, 2 semester hours in communication skills, 2 in social psychology, 2 in human relations, and 2 in minority groups, for a total of 8 semester hours. In the upper-division baccalaureate category, 2 semester hours in social psychology, 2 in human relations, and 2 in minority groups, for a total of 6 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in communication skills, 6 in social science, 2 in personnel supervision, and 2 for field experience in race relations/equal opportunity, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in communication skills, 2 in social psychology, 2 in human relations, 2 in minority groups, 2 in group dynamics or group organizing, and 2 for field experience in race relations/equal opportunity, for a total of 12 semester hours. In the upper-division baccalaureate category, 2 semester hours in social psychology, 2 in human relations, 2 in minority groups, 2 for field experience in race relations/equal opportunity, and 1 in social change, for a total of 9 semester hours (2/75).

Recommendation, Skill Level 50

In the vocational certificate category, 2 semester hours in communication skills, 6 in social science, 2 in personnel supervision, 3 in program administration, 3 for field experience in race relations/equal opportunity, and 2 for field experience in education, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in communication skills, 2 in social psychology, 2 in human relations, 2 in minority groups, 2 in group dynamics or group organizing, 2 in program administration, 1 in personnel management, 3 for field experience in race relations/equal opportunity, and 2 for field experience in education, for a total of 18 semester

hours. In the upper-division baccalaureate category, 2 semester hours in social psychology, 2 in human relations, 2 in minority groups, 1 in social change, 1 in personnel management, 1 in program administration, 2 for field experience in race relations/equal opportunity, and 1 for field experience in education, for a total of 12 semester hours (2/75).

MOS–00Z–001

COMMAND SERGEANT MAJOR

00Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Is a very experienced mid-level manager responsible for advising high-level administrators on matters of personnel assignment, utilization, promotion, and training, and about operations and logistics; supervises subordinate staff members and evaluates their performance; evaluates the operational effectiveness of the organization. NOTE: Required to have attained Skill Level 50 in at least one other MOS.

Recommendation

In the upper-division baccalaureate category, 18 semester hours in personnel management, 3 in staff principles, procedures, and organization, and 3 in office administration, for a total of 24 semester hours (2/75).

MOS–01B–001

ELECTRICAL-ELECTRONIC ENGINEERING ASSISTANT

01B20

Exhibit Dates: 10/73–Present.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 001 (Professional Requirements).

Description

Performs professional-level laboratory and field research in any functional branch of electrical or electronic engineering, including power generation and distribution, illumination, wire communication, radar, radio, microwave, and infrared radiation; receives assignments which outline scope of problem, time allotment, and related projects; develops plans for research and locates source material; designs new equipment or the modification of existing equipment; uses advanced mathematics including calculus and differential equations; uses computer terminal and other electronic test and measurement equipment; writes detailed reports, bids, and specifications; supervises engineering shop personnel. NOTE: The prerequisite for the assignment of this MOS is a bachelor's degree and a minimum of six months of related experience, or a master's degree, in electrical or electronic engineering.

Recommendation

In the graduate degree category, 6 semester hours in electrical/electronic engineering research and laboratory procedures and additional credit on the basis of institutional evaluation (6/76).

MOS–01C–001

MECHANICAL ENGINEERING ASSISTANT

01C20

Exhibit Dates: 10/73–Present.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 001 (Professional Requirements).

Description

Performs professional-level laboratory and field research in mechanical and metallurgical engineering, including research in automotive and aeronautical fields; receives broad scope assignments for the design and development of mechanical equipment and systems; interprets, adapts, and applies engineering principles and practices and complex guidelines in devising research and development working plans; reviews manufacturers' drawings of commercial equipment for possible adaptation for military use; writes formal justifications for proposed designs; prepares specifications and operating and maintenance instructions; sets up test objectives and criteria for designed equipment; evaluates performance test data and field reports; prepares summary reports and staff studies on research projects. NOTE: The prerequisite for the assignment of this MOS is a bachelor's degree and a minimum of six months of related experience, or a master's degree, in mechanical, automotive, aeronautical, or metallurgical engineering.

Recommendation

In the graduate degree category, 6 semester hours in mechanical engineering research and additional credit on the basis of institutional evaluation (6/76).

MOS–01D–001

CIVIL ENGINEERING ASSISTANT

01D20

Exhibit Dates: 10/73–Present.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 001 (Professional Requirements).

Description

Performs professional-level office and field duties in the field of civil engineering; originates, evaluates, and inspects projects in construction, highway, structural, hydraulics, and sanitary engineering; prepares and interprets blueprints and engineering diagrams and makes inspections before and during construction; reviews plans and specifications submitted on engineering projects, and prepares estimates of personnel, materials, and equipment required; performs preconstruction layout and schedules flow of materials and equipment to project; prepares detailed progress reports on projects. NOTE: The prerequisite for the assignment of this MOS is a bachelor's degree and a minimum of six months of related experience, or a master's degree, in civil engineering.

Recommendation

In the graduate degree category, 6 semester hours in engineering management and additional credit on the basis of institutional evaluation (6/76).

MOS–01E–001

MATHEMATICS-STATISTICS ASSISTANT

01E20

Exhibit Dates: 10/73–Present.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 001 (Professional Requirements).

Description

Develops and adapts mathematical or statistical theory and methodology for all kinds of mathematical or statistical investigations; investigates and evaluates applicability, efficiency, and accuracy of theory and methods used in mathematical or statistical programs and studies; applies general mathematics such as differential and integral calculus, theory of differential equations and complex numbers; selects and refines systems of experimental and sample designs and specifications; develops theory and appropriate methodology for analysis of problems; carries out research in experimental and sample design; tests validity and efficiency of design; applies principles of statistical inference and probability. NOTE: The prerequisite for the assignment of this MOS is a bachelor's degree and a minimum of six months of related experience, or a master's degree, in mathematics; or a bachelor's degree and a minimum of one year of related experience, or a master's degree, in statistics.

Recommendation

In the graduate degree category, 6 semester hours in mathematical and statistical research and additional credit on the basis of institutional evaluation (6/76).

MOS–01F–001

PHYSICAL SCIENCES ASSISTANT

01F20

Exhibit Dates: 10/73–Present.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 001 (Professional Requirements).

Description

Performs professional-level laboratory and research functions in the field of physics, meteorology, geology, or chemistry; performs research involving theoretical analysis, exploration, or experimentation of physical phenomena or composition, molecular structure, and properties of substances; investigates applications of theoretical concepts to specific processes, devices, techniques, or products; develops research design and investigative techniques; performs chemical analyses of samples; collects and interprets test data and draws conclusions based on evidence; prepares technical reports and makes recommendations on suitability of samples for intended use. NOTE: The prerequisite for the assignment of this MOS is a bachelor's degree and a minimum of six months of related experience, or a master's degree, in physics, meteorology, geology, or chemistry.

Recommendation

In the graduate degree category, 6 semester hours in physical sciences research and additional credit on the basis of institutional evaluation (6/76).

MOS–01G–001

CHEMICAL ENGINEERING ASSISTANT

01G20

Exhibit Dates: 10/73–Present.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 001 (Professional Requirements).

Description

Performs professional-level laboratory and field research in chemical engineering; conducts research in chemical, ceramic, or petroleum engineering; operates small pilot plants or installs and operates a limited variety of equipment for study of one phase of complex development project; plots governing equations or problems to ascertain relationships between experimental data; consolidates data collected during operations and makes necessary conversions for application to large-scale equipment design; performs a variety of chemical and simulated service tests on commercial products or on products newly developed in the laboratory to determine suitability for particular applications; prepares reports describing test procedures and results and recommending actual materials and machinery to be used. NOTE: The prerequisite for the assignment of this MOS is a bachelor's degree and a minimum of six months of related experience, or a master's degree, in chemical, ceramic, or petroleum production engineering.

Recommendation

In the graduate degree category, 6 semester

hours in chemical research and laboratory procedures and additional credit on the basis of institutional evaluation (6/76).

MOS–01H–001

BIOLOGICAL SCIENCES ASSISTANT

01H20

Exhibit Dates: 10/73–Present.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 001 (Professional Requirements).

Description

Performs professional-level laboratory and research duties in the field of biological science; conducts studies in biology, bacteriology, biochemistry, entomology, or pharmacology; performs culture work on animal diseases; keeps records of culturing and of purity, density, and viability tests of cultures prepared for use as vaccines; innoculates and performs autopsies on laboratory animals used in the preparation of cultures; identifies, prepares, and ships cultures; makes bio-assays to determine toxicity of drugs and other substances; plans and executes experiments; calculates and administers doses and observes toxic effects produced; prepares detailed reports on experiments and tests. NOTE: The prerequisite for the assignment of this MOS is a bachelor's degree and a minimum of six months of related experience, or a master's degree, in biology, bacteriology, zoology, parisitology, botany, pharmacology, or entomology.

Recommendation

In the graduate degree category, 6 semester hours in biological research and laboratory procedures and additional credit on the basis of institutional evaluation (6/76).

MOS–02B–001
MOS–02C–001
MOS–02D–001
MOS–02E–001
MOS–02F–001
MOS–02G–001
MOS–02H–001
MOS–02J–001
MOS–02K–001
MOS–02L–001
MOS–02M–001
MOS–02N–001
MOS–02T–001

CORNET-TRUMPET PLAYER
02B20, 02B40
BARITONE-EUPHONIUM PLAYER
02C20, 02C40
FRENCH HORN PLAYER
02D20, 02D40
TROMBONE PLAYER
02E20, 02E40
TUBA PLAYER
02F20, 02F40
FLUTE-PICCOLO PLAYER
02G20, 02G40
OBOE PLAYER
02H20, 02H40
CLARINET PLAYER
02J20, 02J40
BASSOON PLAYER
02K20, 02K40
SAXOPHONE PLAYER
02L20, 02L40
PERCUSSION PLAYER
02M20, 02M40
PIANO PLAYER
02N20, 02N40
GUITAR PLAYER
02T20, 02T40

Exhibit Dates: 10/73–2/77.

Career Management Field: 97 (Band).

Description

Summary: Plays specified musical instrument(s) in appropriate musical organizations; performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles. *Skill Level 20:* Executes instrumental studies and ensemble and solo literature of moderate difficulty within the facility-range typical of university lower-division music majors; sings simple melodic patterns at sight; possesses a basic understanding of musical structure equivalent to that of a college or university freshman music major; performs preventive maintenance on the specified musical instrument; performs duties as may be assigned in administration, supply, and music library. *Skill Level 40:* Possesses the musicianship and skills required for Skill Level 20; supervises and assigns duties to Skill Level 20 personnel; is assigned to lead instrumental sections, marching formations, and large or small performing groups; may be assigned appropriate tasks in music arranging, music library, supply, equipment management, and other administrative duties.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in marching band, 2 in concert band, and 4 in music theory (basic harmony and ear training), for a minimum total of 8 semester hours; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (jazz, brass, woodwind, percussion, string, and vocal) (6/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in marching band, 3 in concert band, 2 in ensemble electives, and 4 in music theory (basic harmony and ear training), for a minimum total of 12 semester hours; because of the wide range of individual abilities, additional credit may be awarded on the basis of institutional evaluation in music theory, applied music (individual instruction in performance), and small performing ensembles (jazz, brass, woodwind, percussion, string, and vocal). In the upper-division baccalaureate category, credit in conducting, arranging, and music administration and supervision on the basis of institutional evaluation (6/76).

MOS–02B–002
MOS–02C–002
MOS–02D–002
MOS–02E–002
MOS–02F–002
MOS–02G–002
MOS–02H–002
MOS–02J–002
MOS–02K–002
MOS–02L–002
MOS–02M–002
MOS–02N–002
MOS–02T–002

CORNET-TRUMPET PLAYER
02B10, 02B20, 02B30
BARITONE-EUPHONIUM PLAYER
02C10, 02C20, 02C30
FRENCH HORN PLAYER
02D10, 02D20, 02D30
TROMBONE PLAYER
02E10, 02E20, 02E30
TUBA PLAYER
02F10, 02F20, 02F30
FLUTE-PICCOLO PLAYER
02G10, 02G20, 02G30
OBOE PLAYER
02H10, 02H20, 02H30
CLARINET PLAYER
02J10, 02J20, 02J30
BASSOON PLAYER
02K10, 02K20, 02K30
SAXOPHONE PLAYER
02L10, 02L20, 02L30
PERCUSSION PLAYER
02M10, 02M20, 02M30
PIANO PLAYER
02N10, 02N20, 02N30
GUITAR PLAYER
02T10, 02T20, 02T30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–02P–001
MOS–02Q–001
MOS–02R–001

BRASS GROUP LEADER
02P40
WOODWIND GROUP LEADER
02Q40
PERCUSSION GROUP LEADER
02R40

Exhibit Dates: 10/73–Present.

Description

Supervises a brass, woodwind, or percussion band section and performs in military marching and concert musical organizations and, as qualified, in associated choral, jazz, and other small ensembles; able to perform the duties of a related instrumentalist MOS at Skill Level 40; is delegated primary responsbility for specific administrative duties of the musical unit, such as equipment or library management, coordination of assigned musical performances, administration of the equal opportunity program, etc; is capable of conducting and rehearsing the band in the absence of the bandmaster and the enlisted bandleader.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in marching band, 3 in concert band, 2 in ensemble electives, 4 in music theory (basic harmony and ear training), and 3 in personnel supervision, and additional credit in music theory, applied music (individual instruction in performance), small performing ensembles (jazz, brass, woodwind, percussion, string, and vocal), and human relations on the basis of institutional evaluation, for a minimum total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in conducting and 3 in music administration and supervision, and additional credit in arranging and for field experience in education on the basis of institutional evaluation, for a minimum total of 6 semester hours (6/76).

MOS–02S–001

SPECIAL BANDSMAN

02S20
02S50

Exhibit Dates: 10/73–2/77.

Career Management Field: 97 (Band).

Description

Summary: Performs as a musician or as a member of a special band, such as the U.S. Army Band, the U.S. Army Field Band, or the U.S. Military Academy Band at West Point. *Skill Level 20:* Plays brass, woodwind, percussion, or stringed instruments or performs as musical arranger, copyist, librarian, music electronic integration specialist, musical instrument repairman, music commentator/annotator, procurement specialist, solo instrumentalist or vocalist; executes marching movements in military formations; doubles on related instruments; plays solo passages. *Skill Level 50:* Able to perform the duties required for Skill Level 20; serves as the principal noncommissioned officer in an instrumental, choral, or music section,

instrumental group, or special band; instructs, trains, rehearses, and conducts instrumental groups to achieve recognized standards; organizes separate groups simultaneously to provide required instrumentation; recognizes, explains, demonstrates, and corrects section performance techniques; rehearses and trains section members to achieve correct musical rendition and coordination; ascertains section changes to improve overall sound rendition, tone quality, playability, and balance; instructs section instrumentalist in all aspects of related music; plans, directs, and controls group and other band segment rehearsals; determines and produces proper rendition of all sections and composite coordination; plans, arranges, instructs, and conducts sound improvement, intonation, tonality, and musicality of concert band; conducts band as assistant enlisted bandleader in formations and ceremonies; plans administrative and logistical support for special band operations; designs, constructs, and assembles necessary facilities for band presentation; applies public relations techniques to special band employment.

Recommendation, Skill Levels 20 and 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in marching band, 3 in concert band, 2 in ensemble electives, and 4 in music theory (basic harmony and ear training), and additional credit in band, music theory, electronics, and small performing ensembles (jazz, brass, woodwind, percussion, string, and vocal) on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the upper-division baccalaureate category or in the graduate category, credit on the basis of institutional evaluation of the individual's experience and area of specialization in the following subject areas: applied music, advanced music theory, conducting, composition, arranging, music history, instrument repair, music administration and supervision, education, human relations, and management (6/76).

MOS–02S–002

SPECIAL BANDSPERSON

02S10
02S20
02S30
02S40
02S50

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–02Z–001

ENLISTED BANDLEADER

02Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 97 (Band).

Description

Serves as the principal noncommissioned officer of an Army band; able to perform the duties required for 02P40 (Brass Group Leader), 02Q40 (Woodwind Group Leader), or 02R40 (Percussion Group Leader); selects, prepares, and presents concert, marching, dance, stage, and show band music and assumes any other musical or military functions of the bandmaster as delegated; assists in planning, coordinating, and supervising all activities in support of the band mission; applies public relations techniques to band employment; supervises on-the-job training; advises bandmaster on all personnel matters.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in marching band, 3 in concert band, 2 in ensemble electives, and 4 in music theory (basic harmony and ear training), and additional credit in music theory, applied music (individual instruction in performance), and small performing ensembles (jazz, brass, woodwind, percussion, string, and vocal) on the basis of institutional evaluation for a minimum total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hour in conducting, 3 in music administration and supervision, 3 in introduction to management, 3 in personnel management, 3 in human relations or public relations, and 6 for field experience in management, and additional credit in arranging and for field experience in education on the basis of institutional evaluation, for a minimum total of 21 semester hours (6/76).

MOS–03B–001

PERFORMING ARTS SPECIALIST

03B20
03B40

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 03B was discontinued.)

Career Management Field: 71 (Administration), *subfield* 715 (Recreational Services).

Description

Summary: Supervises and conducts theatrical and musical programs. *Skill Level 20:* Selects material; locates directors, writers, and technicians; auditions performers; calls rehearsals; plans costumes and staging; schedules use of facilities; conducts clinics and workshops in all areas of theatrical production. *Skill Level 40:* Able to perform the duties required for Skill Level 20; coordinates and supervises the planning of all elements and phases of several performing arts programs; directs productions.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in costume and scene design, 3 in musical theater, 3 in technical theater, 3 in stagecraft, 6 in play production, and 6 for a theater internship, for a total of 24 semester hours (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 20 plus 3 semester hours in human relations and 3 in personnel supervision, for a total of 30 semester hours. In the upper-division baccalaureate category, 6 semester hours in play directing, 3 for field experience in management, and 3 in records administration, for a total of 12 semester hours (5/76).

MOS–03C–001

PHYSICAL ACTIVITIES SPECIALIST

03C20
03C40

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 715 (Recreational Services).

Description

Summary: Supervises, conducts, and administers sports, recreation, and first aid programs; manages sports and recreation facilities and equipment. *Skill Level 20:* Plans, organizes, and conducts sports and recreation programs; manages, or assists in the management of, indoor and outdoor sports and recreation facilities; organizes and conducts team and individual sports competitions; provides instruction in physical fitness exercises, first aid, water safety, and various sports; conducts sports clinics to explain rules, techniques, safety, and sportsmanship; issues athletic supplies and equipment; inspects and performs preventive maintenance on athletic facilities and equipment; acts as lifeguard. *Skill Level 40:* Able to perform the duties required for Skill Level 20, supervises the operation of sports and outdoor recreation programs, the organization of team and individual sports competitions, the management of sports facilities; controls the issuance of athletic supplies and equipment and the scheduling of facilities; supervises and accounts for fees collected for the rental or sales of supplies or equipment and the use of sports or recreation facilities; manages and evaluates the work activities of subordinate personnel; prepares correspondence, reports, and publicity materials concerning physical activity programs.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in beginning lifesaving and 2 in senior lifesaving, based on American Red Cross Certificate. In the lower-division baccalaureate/associate degree category, 3 semester hours in anatomy and physiology, 3 in public speaking, 2 in first aid (care and prevention of athletic injuries), 2 in individual and dual sports, 2 in team sports, 2 in physiology of exercise, 2 in theory of teaching and coaching sports, 2 in beginning lifesaving, and 1 in senior lifesaving, for a total of 19 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in beginning lifesaving and 2 in senior lifesaving, based on American Red Cross Certificate. In the lower-division baccalaureate/associate degree category, 3 semester hours in anatomy and physiology, 3 in public speaking, 3 in English composition, 3 in office management, 3 in personnel management, 3 in organization and administration of physical education programs, 2 for field experience in education, 2 in control of athletic facilities, 2 in first aid (care and prevention of athletic injuries), 2 in individual and dual sports, 2 in team sports, 2 in physiology of exercise, 2 in theory of teaching and coaching sports, 2 in beginning lifesaving, and 1 in senior lifesaving, for a total of 35 semester hours (2/75).

MOS–03C–002

PHYSICAL ACTIVITIES SPECIALIST

03C10
03C20
03C30
03C40

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–03D–001

ARTS AND CRAFTS SPECIALIST

03D20
03D40

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 03D was discontinued.)

Career Management Field: 71 (Administration), *subfield* 715 (Recreational Services).

Description

Summary: Supervises, organizes, and conducts arts and crafts activities. *Skill Level 20:* Instructs and supervises individuals and groups of varying levels of ability in a wide variety of basic arts and crafts activities; manages and maintains crafts facilities and equipment; organizes and promotes displays, exhibits, contests, and demonstrations. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises arts and crafts programs and management of facilities; requisitions and controls the use of supplies; accounts for use of funds; instructs subordinate personnel.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in painting fundamentals, 3 in drawing fundamentals, 3 in

introductory sculpture, 3 in ceramics, 9 in crafts, and 3 in human relations, and additional credit on the basis of institutional evaluation, for a minimum total of 24 semester hours (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 20 plus 3 additional semester hours in human relations and 3 in personnel supervision, for a total of 30 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in records administration, and 3 for an internship in education, for a total of 9 semester hours (5/76).

MOS–03Z–001

SPECIAL SERVICES SENIOR SERGEANT

03Z50

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 03Z was discontinued and its functions were incorporated into MOS 03C, Physical Activities Specialist, and MOS 71L, Administrative Specialist.)

Career Management Field: 71 (Administration), *subfield* 715 (Recreational Services).

Description

Supervises development and management of Special Services programs, including entertainment, sports, arts and crafts, outdoor recreation, youth activities, and library programs.

Recommendation

In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, 6 semester hours in recreation resource relationships, 6 in recreation resources inventory and planning, 3 in recreation facility and site planning, 3 in organization and management of recreational sports activities, 6 in special problems in recreation, 6 for a recreation internship, 6 in human relations, 6 for field experience in management, 3 in introduction to management, 3 in records administration, and 3 in personnel supervision, for a total of 51 semester hours (5/75).

MOS–04B–001

TRANSLATOR-INTERPRETER

04B20 (04B2L)

04B30 (04B3L)

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 04B was discontinued and its functions were incorporated into MOS 96C, Interrogator.)

Career Management Field: 96 (Military Intelligence).

Description

Summary: Performs translating and interpreting duties, using knowledge of English and a foreign language. *Skill Level 20:* Prepares translations of written foreign language material into English and written English into a foreign language; prepares summaries of translated foreign documents; translates foreign technical publications; translates announcements, speeches, radio scripts, publications, and other materials into a foreign language; establishes and maintains a file of translation and language reference materials; edits translations for correctness of grammatical construction, phraseology, punctuation, idiom, and clarity of expression; coordinates translating activities; instructs and advises translators. *Skill Level 30:* Able to perform the duties required for Skill Level 20; interprets oral statements into either English or a foreign language using phraseology selected to preserve the original intent, meaning, and emphasis; translates and orally expresses statements in English or in a foreign language.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in typing, 2 in record keeping, and 1 in filing, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in translating, 3 in written communication skills, 2 in English grammar, 2 in typing, 1 in record keeping, and 1 in filing, for a total of 12 semester hours. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in translating (written), 3 in written communication skills, 3 in public speaking, 3 in human relations, 2 in English grammar, 2 in typing, 1 in record keeping, and 1 in filing, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in interpreting (oral). NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (5/76).

MOS–04C–001

EXPERT LINGUIST

04C20 (04C2L)

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 04C was discontinued and its functions were incorporated into MOS 96C, Interrogator.)

Career Management Field: 96 (Military Intelligence).

Description

Able to perform the duties required for 04B30 (Translator-Interpreter); understands the customs and habits of the people of at least one foreign country; analyzes the content of foreign documents and publications; translates or writes in English or foreign language on a variety of technical, tactical, and strategic subjects; reviews translations for accuracy and completeness; employs free translation techniques and uses idiomatic language; interprets, into either English or foreign language, statements made by participants in legal proceedings, conferences, public relations interviews, and radio and loudspeaker broadcasts; acts as a chief translator of a team comprised of 18 or more enlisted linguists or as a special interpreter for a general officer or as a chief interpreter in an interpreter platoon of a military intelligence linguistic company.

Recommendation

In the vocational certificate category, 3 semester hours in typing, 2 in record keeping, and 1 in filing, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in translating (written), 3 in public speaking, 3 in understanding a foreign culture, 3 in written communication, 3 in human relations, 2 in English grammar, 2 in typing, 1 in record keeping, and 1 in filing, for a total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in interpreting (oral). NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (5/76).

MOS–05B–001

RADIO OPERATOR

05B20

05B40

Exhibit Dates: 10/73–Present.

Career Management Field: 72 (Telecommunications).

Description

Summary: Supervises or operates and maintains radio communications equipment and transmits and receives messages by voice or by Morse Code. *Skill Level 20:* Connects equipment components; erects antennas; installs power generators; test-operates equipment; applies prescribed radio procedures; transcribes International Morse Code into clear text and records on message forms; performs preventive maintenance on radio and associated power equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor of a radio-operating activity comprised of at least 4 to 30 or more radio operators; selects installation sites; prepares and disseminates work schedules, operating procedures, and instructions; corrects faulty work practices and operating techniques by instruction and demonstration; checks operational logs, maintenance schedules, and station files for completeness and accuracy; requisitions supplies; prepares technical and administrative reports. NOTE: May have progressed to 05B40 from 05E40 (Voice Radio Operator).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in broadcasting, 3 in radio communications (code), 3 in small instrument maintenance, and 2 in basic Morse Code, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in elementary radio communications, 3 in elementary broadcasting, and 2 in basic Morse Code, for a total of 8 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in elementary radio communications, 3 in elementary broadcasting, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and 2 in basic Morse Code, for a total of 17 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/76).

MOS–05C–001

RADIO TELETYPE OPERATOR

05C20

05C40

05C50

Exhibit Dates: 10/73–Present.

Career Management Field: 72 (Telecommunications).

Description

Summary: Supervises or sets up and operates radio teletype or tape relay equipment and transmits and receives messages by teletype or tape relay or Morse Code. *Skill Level 20:* Connects and operates radio teletype keyboard and tape relay equipment; erects antennas; installs power generators; prepares messages in proper format for delivery; establishes and maintains station logs; performs preventive maintenance on radio teletype and tape relay systems; operates radio equipment in voice mode. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor of a radio teletype operating team comprised of 4 to 24 operators; selects sites and supervises installation of equipment; prepares work schedules, operating procedures, and instructions; instructs and demonstrates proper procedures to radio teletype operators; checks logs and files for accuracy; prepares administrative and technical reports. NOTE: May have progressed to 05C40 from 05F40 (Radio Teletypewriter Operator, Non-Morse). *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager; interprets and

supervises the execution of policies and procedures; advises superiors on personnel matters; directs and coordinates administrative activities; coordinates food service and supply activities; assists superiors in planning and implementing on-the-job training. NOTE: May have progressed to 05C50 from 05B40 (Radio Operator).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in teletypewriter operation, 3 in typewriting, 3 in broadcasting, 3 in small instrument maintenance, and 2 in basic Morse Code, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in typewriting, 3 in teletypewriter operation, and 3 in elementary radio communications, for a total of 9 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in typewriting, 3 in teletypewriter operations, 3 in elementary radio communications, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and 2 in technical writing for a total of 20 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in maintenance management, 3 in records administration, and 3 in office management, for a total of 18 semester hours (3/76).

MOS–05D–001

EW/SIGNAL INTELLIGENCE EMITTER IDENTIFIER/LOCATER

05D10

05D20

05D30

Exhibit Dates: 3/77–Present.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Operates or supervises the operation of radio direction-finding systems and other systems using advanced identification techniques; intercepts and acquires bearings on target transmitters and performs analysis on maps or charts to establish probable location of target transmitters; intercepts, acquires, and performs analysis on signals from target transmitters. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 10:* Employs special identification techniques to recognize, identify, and locate foreign radio transmitters; forwards bearings and identification information to a control center; selects, erects, and orients tactical antennas; obtains desired visual display on specialized monitor oscilloscopes; records electrical characteristics of signals displayed, using light sensitive recorders; operates direction-finding and related cryptological, communications, and automatic data processing equipment; prepares and maintains operation logs and card files; types at a minimum rate of 25 words per minute; copies International Morse Code at a minimum rate of 15 groups per minute. *Skill Level 20:* Able to perform the duties required for Skill Level 10; maintains section management files; classifies, analyzes, and evaluates observed bearings and waveform oscillograms; establishes, plots, and evaluates bearings to determine probable geographical location of foreign transmitters; performs measurements of bands on oscillograms to determine ripple frequency, modulation percentages, and duration of other effects; maintains calibration and accuracy studies, and computes statistical data, including standard deviations and systemic errors; monitors quality control of input and data for automatic data processing support; may serve as a first-line supervisor, assigning workloads and completing personnel evaluations; presents oral and written reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; inspects equipment to ensure proper alignment and orientation; provides guidance and assistance in site selection and equipment installation; prepares written and oral reports; performs quality control measures and writes quality control reports; establishes and maintains facilities and support for site personnel; implements emergency action plans; may have experience as the enlisted commander of a detachment.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems operations and 2 in typing (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, and 1 in office practices, for a total of 10 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, and 2 in office practices, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 4 semester hours in written communication skills, 3 in human relations, 3 for field experience in personnel supervision, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, and 2 in office practices, for a total of 18 semester hours (6/77).

MOS–05E–001

VOICE RADIO OPERATOR

05E20

05E40

Exhibit Dates: 10/73–Present.

Career Management Field: 72 (Telecommunications).

Description

Summary: Supervises or operates and maintains radio communications equipment and transmits and receives messages by voice. *Skill Level 20:* Connects components; erects antennas; installs power generators; test-operates equipment; installs and operates radio wire integration facilities and devices associated with FM/SSB radio nets; performs preventive maintenance on radio and associated power equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor of a radio operating facility comprised of at least 4 to 30 or more radio operators; selects installation sites; prepares and disseminates work schedules, operating procedures, and instructions; instructs and demonstrates proper procedures to radio operators; checks operational logs, station files, and maintenance schedules for completeness and accuracy; prepares technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in broadcasting and 3 in small instrument maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in elementary broadcasting and 3 in elementary radio communications (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in elementary broadcasting, 3 in elementary radio communications, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/76).

MOS–05F–001

RADIO TELETYPEWRITER OPERATOR (NON-MORSE)

05F20

05F40

Exhibit Dates: 10/73–Present.

Career Management Field: 72 (Telecommunications).

Description

Summary: Sets up and operates teletypewriter and tape relay equipment. *Skill Level 20:* Erects antennas; installs power generators; processes incoming and outgoing messages; converts perforated tape into literal copy; encodes and decodes messages with cryptographic devices; establishes and posts logs; performs preventive maintenance on equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises Skill Level 20 personnel; teaches subordinates correct operating procedures; plans work and maintenance schedules; maintains records; writes technical and administrative reports; supervises installation of equipment.

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in basic typewriting, 3 in radio operation, 6 in radio service and repair, and 1 in small-engine operation and maintenance, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic typewriting, 3 in radio operation, and 3 in radio service and repair, for a total of 9 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in basic typewriting, 3 in radio operation, 6 in radio service and repair, 1 in small-engine operation and maintenance, 3 in technical writing, and 6 for a practicum in personnel and records management, for a total of 24 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic typewriting, 3 in radio operation, 3 in radio service and repair, 3 in technical writing, 2 in personnel supervision, and 2 in records management, for a total of 16 semester hours. In the upper-division baccalaureate category, 3 semester hours in business administration (2/75).

MOS–05G–001

SIGNAL SECURITY SPECIALIST

05G10

05G20

05G30

05G40

05G50

Exhibit Dates: 3/77–Present.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Supervises and conducts signal

security operations throughout the Army; monitors and analyzes communications signals; performs electronic security inspections; reviews documents for adequacy of security; prepares comprehensive written reports and makes oral presentations. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities, therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 10:* Performs transcriptions, monitoring, and basic analysis of radiotelephone and conventional telephone messages to detect communications security discrepancies and violations; reviews communications, electronic signal instructions, communications electronic operating instructions, and operations plans and orders to determine adequacy of communications security; reads and interprets maps and map overlays; prepares basic reports on signal security activities; operates and performs user maintenance on communications security and monitoring equipment; selects sites for, erects, and orients tactical antennas; selects and uses commercial battery and generator power; performs general office duties such as filing, typing (35 words per minute minimum), preparation of reports, and record keeping; presents oral reports concerning communications security activities. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as team chief, supervising 2–5 persons; provides basic signal security advice and assistance to commanders and performs security analysis of security codes; establishes and supervises operating sites; writes reports, including statistical analyses, and presents oral reports on data collected; makes recommendations to eliminate disclosures of intelligence information; provides advice and assistance concerning cryptographic systems and the interpretation of basic documents and regulations; determines need for written communication security instructions; prepares special, periodic, and project reports on signal security activities. *Skill Level 30:* Able to perform the duties required for Skill Level 20; is a first-line supervisor of 10–12 persons; provides advice and assistance on electronic security procedures and signal security training; prepares signal security monitoring cover plan; analyzes the signal output of communications and noncommunications equipment to establish methods of operations, cryptonetting, and other types of intelligence; reviews documents for signal security; plans and supervises electronic security support; schedules signal security operational activities. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises 15 or more persons; determines needed signal intelligence support; presents oral reports to commanders on operational security principles; plans signal security actions to support the operational security plan; serves as advisor to commanders on signal security matters; plans and conducts classes on signal security activities. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as signal security operations chief, first sergeant of a company, or signal security chief; supervises 50–300 persons; has experience as the enlisted commander of a detachment; develops and writes signal security doctrine; advises commander and manages signal security personnel; plans career progression training; allocates personnel; advises commander and manages signal security equipment resources; plans and carries out signal security missions; advises generals and high-level government officials on signal security activities.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 2 in written communication skills, 2 in oral communication skills, 2 in electronic systems operations, and 1 in office practices, for a total of 10 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in typing, 3 in written communication skills, 3 in oral communication skills, 2 in electronic systems operations, 2 in office practices, and 2 in introductory mathematics, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in written communication skills, 3 in oral communication skills, 3 for field experience in personnel supervision, 2 in electronic systems operations, 2 in office practices, and 2 in introductory mathematics for a total of 18 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in written communication skills, 3 in typing, 3 in oral communication skills, 2 in electronic systems operations, 2 in office practices, and 2 in introductory mathematics, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 4 semester hours in written communication skills, 3 in typing, 3 in oral communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic systems operations, 2 in office practices, and 2 in introductory mathematics, for a total of 22 semester hours. In the upper-division baccalaureate category, 2 semester hours for field experience in management (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in written communication skills, 3 in typing, 3 in oral communication skills, 2 in electronic systems operations, 2 in office practices, and 2 in introductory mathematics, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication skills, 3 in typing, 3 in oral communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic systems operations, 2 in office practices, and 2 in introductory mathematics, for a total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 for an internship in education (6/77).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in personnel management, and 3 for an internship in education, for a total of 15 semester hours (6/77).

MOS–05H–001

EW/Signal Intelligence Morse Interceptor

05H10
05H20
05H30
05H40

Exhibit Dates: 3/77–Present.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Operates International Morse Code message interception and simple printer equipment and supervises the operation of such equipment in mobile or fixed installations for the purpose of detecting, identifying, and exploiting foreign communications. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 10:* Operates Morse Code interception equipment, including radio receivers, special typewriters, teletypewriters, antenna selection devices, internal communications equipment, and magnetic tape recorders; searches for, identifies, and manually records foreign International Morse Code communications at a minimum rate of 20 groups per minute; performs first-level analysis of messages to detect anomalies and suspect items which may be of intelligence interest; maintains operator's log of messages and related data and delivers messages to analysts for interpretation; performs operator maintenance on equipment; types at a minimum speed of 25 words per minute. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs more detailed message analysis and evaluation prior to forwarding messages to other analysts; writes detailed reports regarding intercepted messages; conducts on-the-job training; presents oral reports to high-level command staff. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises Morse intercept activities; establishes and maintains extensive intercept files for messages and related data; assists in formulating unit deployment plans. *Skill Level 40:* Able to perform the duties required for Skill Level 30; allocates personnel and equipment resources; assists in designing collection strategies; may have experience as the enlisted commander of a detachment; analyzes automatic data processing results and confers with computer programmers and analysts. NOTE: May have progressed to 05H40 from 05H30 or 05D30 (EW/Signal Intelligence Emitter Identifier/Locator).

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems operations and 2 in typing (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, and 1 in office practices, for a total of 8 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, and 2 in office practices, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 4 semester hours in written communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic systems operations, 2 in typing, and 2 in office practices, for a total of 16 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, and 2 in office practices, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic systems operations, 2 in typing, and 2 in office practices, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (6/77).

MOS–05K–001

EW/Signal Intelligence Non-Morse Interceptor

05K10
05K20
05K30
05K40

Exhibit Dates: 3/77–Present.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Operates non-Morse communications intercept and recording equipment and supervises the operation of such equipment in mobile or fixed environments for the purpose of identifying and recording foreign radiotele-

type, facsimile, and data communications transmissions. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies andknowledges associated with the MOS were evaluated. *Skill Level 10:* Operates radioteletype, facsimile, and data intercept and recording equipment; knows basic AC and DC theory, circuit electronics theory, basic frequency analysis, spectrum analysis, and functional algebra; searches for, identifies, and records foreign transmissions; maintains a log of interceptions; prepares technical reports; types at a minimum rate of 25 words per minute; copies International Morse Code at a minimum rate of 15 groups per minute; performs operator maintenance on non-Morse intercept equipment; selects, erects, and orients tactical antennas. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists in the establishment of operational sites; maintains the technical data base to support collection operations; employs special electronic equipment for complex signal analysis; analyzes intercepted communications for items of intelligence interest; understands computer usage in the interpretation of intercepted messages; prepares detailed reports; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises non-Morse intercept activities; allocates equipment and personnel resources; writes extensive reports to accurately provide intelligence information; analyzes long-term trends, using statistical analysis techniques; coordinates interaction with other collection and processing activities; conducts on-the-job training. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises non-Morse intercept activities; interprets signal intelligence collection priorities; ensures proper handling of intelligence information; assesses procedures and operations for adequacy in meeting intelligence requirements and recommends changes; may have experience as the enlisted commander of a detachment.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems operations, 2 in typing, 2 in introductory mathematics, and 2 in introduction to automatic data processing equipment, for a total of 8 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 1 in office practices, for a total of 12 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 4 semester hours in written communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 20 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication skills, 3 for field experience in personnel supervision, 3 in human relations, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 22 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (6/77).

MOS–11B–001

INFANTRYMAN
(LIGHT WEAPONS INFANTRYMAN)

11B10
11B20
11B40

Exhibit Dates: 10/73–8/75.

Career Management Field: 11 (Maneuver Combat Arms), *subfield* 111 (Infantry).

Description

Summary: Is a member of a unit which consists of 10–70 persons and which utilizes individual weapons and machine guns in offensive and defensive ground combat. *Skill Level 10:* Fires rifles and machine guns; utilizes camouflage to conceal weapons and personnel; assists in the construction of minor fortifications, roadblocks, wire entanglements, and minefields; prepares rough maps, sketches, and simple overlays; reads maps and aerial photographs; performs preventive maintenance on weapons and equipment; administers first aid. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates machine guns and hand-held antiaircraft weapons; uses grenade launchers. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor, directing the utilization of personnel and equipment; supervises construction and maintenance activities; gives commands and makes oral reports; supervises the receipt, storage, and distribution of equipment, supplies, and food.

Recommendation, Skill Levels 10 and 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category: *If the duty assignment was team leader, section leader, squad leader, or team chief,* 3 semester hours for field experience in management; *if the duty assignment was duty sergeant, ammunition chief, or section chief,* 3 semester hours in public speaking and 6 for field experience in management; *if the duty assignment was instructor,* 3 semester hours in principles of instruction, 3 in public speaking, and 6 for field experience in management, for a total of 12 semester hours; *if the duty assignment was section sergeant,* 3 semester hours in office accounting, 3 in public speaking, 1 in inventory management, and 6 for field experience in management, for a total of 13 semester hours (2/75).

MOS–11B–002

INFANTRYMAN

11B10
11B20
11B30
11B40
11B50

Exhibit Dates: 9/75–Present.

Career Management Field: 11 (Maneuver Combat Arms), *subfield* 111 (Infantry).

Description

Summary: Leads, supervises, and serves as a member of an infantry unit of 10–20 persons, employing individual weapons, machine guns, and anti-armor weapons in offensive and defensive ground combat. *Skill Level 10:* Uses individual infantry weapons; lays field wire; performs basic communications functions and operates communication equipment; utilizes camouflage to conceal weapons and personnel; constructs minor fortifications; performs land navigation; performs preventive maintenance on weapons, equipment, and some vehicles; makes verbal reports; administers first aid; operates wheeled vehicles to transport personnel, supplies, and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as a team leader, directing deployment and employment of personnel; supervises maintenance and construction activities; reads, interprets, and collects intelligence information; distributes administrative and training documents; trains subordinate personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; as a first-line supervisor, directs the utilization of personnel and equipment; coordinates unit actions with adjacent and supporting elements; insures proper collection and reporting of intelligence data. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in planning, organizing, directing, supervising, training, coordinating, and reporting activities of subordinate units; supervises receipt, storage, and distribution of supplies, equipment, and food to subordinate units; provides oral and written reports; assists in production and administration of staff journals, files, records, and reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as the principal noncommissioned officer in an infantry company; assists in planning, coordinating, and supervising all company activities; advises superiors on all matters concerning subordinate personnel. NOTE: May have progressed to 11B50 from 11B40 or 11C40 (Indirect Fire Infantryman).

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying and 1 in first aid (11/75).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 for field experience in management, and 1 in first aid, for a total of 7 semester hours (11/75).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 in record keeping, 3 in human relations, 3 for field experience in management, and 1 in first aid, for a total of 13 semester hours (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in human relations, 3 in office administration, 3 in record keeping, 3 in surveying, 3 for field experience in management, and 1 in first aid for a total of 19 semester hours (11/75).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 4 semester hours in office administration, 4 in record keeping, 6 in human relations, 3 in surveying, 3 in introduction to management, 3 for field experience in management, and 1 in first aid, for a total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management (11/75).

MOS–11C–001

INDIRECT FIRE INFANTRYMAN

11C10
11C20
11C30
11C40

Exhibit Dates: 9/75–Present.

Career Management Field: 11 (Maneuver Combat Arms), *subfield* 111 (Infantry).

Description

Summary: Leads or serves as a member of a mortar squad, section, or platoon employing crew-served and individual weapons in offensive and defensive operations. *Skill Level 10:* Employs individual weapons; assists in construction of minor fortifications; performs minor maintenance on weapons, equipment, and wheeled and tracked vehicles; performs land navigation; measures horizontal and vertical angles; estimates ranges; computes firing data; administers first aid; collects and verbally reports tactical information using basic communications equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; leads mortar squad; supervises crew readiness; trains crew; supervises work details. *Skill Level 30:* Able to perform the duties required for Skill Level 20; leads mortar section; supervises employment and deployment of personnel and equipment; conducts surveys to determine weapon location. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises mortar platoon; assists in planning, organizing, training, reporting, and coordinating activities of subordinate sections; supervises receipts, storage, and distribution of ammunition, supplies, equipment, and food.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying and 1 in first aid (11/75).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 for field experience in management, and 1 in first aid, for a total of 7 semester hours (11/75).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 in human relations, 3 in record keeping, 3 for field experience in management, and 1 in first aid, for a total of 13 semester hours (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in human relations, 3 in office administration, 3 in record keeping, 3 in surveying, 3 for field experience in management, and 1 in first aid, for a total of 19 semester hours (11/75).

MOS–11D–001

ARMOR RECONNAISSANCE SPECIALIST

11D10
11D20
11D40
11D50

Exhibit Dates: 10/73–8/75.

Career Management Field: 11 (Maneuver Combat Arms), *subfield* 112 (Armor).

Description

Summary: Leads or serves as a member of a scout squad or section, intelligence staff section, scout or reconnaissance platoon, air calvary team, or armored calvary team. *Skill Level 10:* Under supervision, surveys large geographical areas for the purpose of analyzing concentrations of people, materiel, industries, and roads; provides information about transportation networks, communications capability, and mobility of area inhabitants; performs basic vehicle maintenance; drives various vehicles; knows basic voice radio communication procedures; does some technical report writing. *Skill Level 20:* Able to perform the duties required for Skill Level 10; prepares situation maps and overlays; analyzes topographic maps; maintains records and files; operates more complex communications equipment; processes prisoners of war, captured documents, and materiel. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor; supervises deployment of small armored units in reconnaissance and security operations; supervises maintenance of unit vehicles, weapons, and equipment; supervises unit communication operations; supervises the technical and tactical training of small armored units. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises armor intelligence operations at battalion, regiment, brigade, or comparable headquarters; interprets, analyzes, evaluates, and disseminates data about enemy personnel and materiel; supervises operations staff; serves as the principal enlisted assistant to the company commander; manages the activities of 200–250 persons. NOTE: May have progressed to 11D50 from 11D40 or 11E40 (Armor Crewman).

Recommendation, Skill Levels 10 and 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (1/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical writing, 3 in public speaking, 3 for field experience in management, and 1 in management techniques, for a total of 10 semester hours (1/75).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 9 semester hours for field experience in management, 3 in public speaking, 3 in technical writing, 3 in office procedures, 3 in personnel management, 3 in management techniques, and 2 in introductory typing, for a total of 26 semester hours (1/75).

MOS–11D–002

ARMOR RECONNAISSANCE SPECIALIST

11D10
11D20
11D30
11D40

Exhibit Dates: 9/75–Present.

Career Management Field: 11 (Maneuver Combat Arms), *subfield* 112 (Armor).

Description

Summary: Leads or serves as a member of a scout squad or section, reconnaissance platoon, air cavalry team, or armored cavalry team, in support of security, reconnaissance, and combat armor operations. *Skill Level 10:* Surveys large geographical areas to determine population concentrations, industries, terrain features, bridges, and transportation networks; performs operator maintenance on vehicles and preventive maintenance on weapons and communications equipment; administers first aid; drives tracked and wheeled vehicles. *Skill Level 20:* Able to perform the duties required for Skill Level 10; processes intelligence and operations data; prepares maps and overlays; analyzes topographical maps; performs liaison duties; maintains records; processes prisoners of war and captured documents and material. *Skill Level 30:* Able to perform the duties required for Skill Level 20; is a first-line supervisor, overseeing tactical development, training, and maintenance activities; assists in the collection, evaluation, and interpretation of intelligence data; assists in administrative matters. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises armored cavalry or reconnaissance platoon; assists in planning, organizing, directing, training, coordinating, and reporting activities of subordinate sections; supervises receipt, storage, and distribution of ammunition, supplies, equipment, and food.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying and 1 in first aid (11/75).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 for field experience in management, and 1 in first aid, for a total of 7 semester hours (11/75).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 for field experience in management, 3 in human relations, 3 in record keeping, and 1 in first aid, for a total of 13 semester hours (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in office administration, 3 in record keeping, 6 in human relations, 3 in surveying, 3 for field experience in management, and 1 in first aid, for a total of 19 semester hours (11/75).

MOS–11E–001

ARMOR CREWMAN

11E10
11E20
11E30
11E40
11E50

Exhibit Dates: 9/75–8/76.

Career Management Field: 11 (Maneuver Combat Arms), *subfield* 112 (Armor).

Description

Summary: Leads, supervises, or serves as a member of an armored activity, employing individual weapons, tanks, and/or armored combat vehicles in offensive and defensive operations. *Skill Level 10:* Uses individual weapons; performs operator maintenance on tanks, armored combat vehicles, and communications equipment; administers first aid; assists in minor fortification construction; operates wheeled and tracked vehicles; makes verbal reports. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as team leader; performs land navigation; determines ranges and prepares range cards; reads and interprets maps and aerial photos; reproduces, distributes, and files operations, intelligence, and administrative documents; trains subordinate personnel; leads ammunition supply section and supervises resupply operations. *Skill Level 30:* Able to perform the duties required for Skill Level 20; is a first-line supervisor, leading a tank crew or section or a security section; directs the deployment of subordinate personnel; evaluates terrain and selects targets; trains personnel; collects and reports intelligence data; supervises construction of fortifications, and equipment and vehicle maintenance; and controls execution of tactical missions. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises armor platoon; processes operations and intelligence information; supervises receipt, storage, and distribution of ammunition, supplies, equipment, and food; assists in planning, organizing, training, and coordinating of subordinate sections. *Skill Level 50:* Able to perform the duties

required for Skill Level 40; is the principal noncommissioned officer in an armor company; supervises intelligence operations; advises company commander on all matters concerning enlisted personnel and the company mission; directs and coordinates company administration. NOTE: May have progressed to 11E50 from 11E40 or 11D40 (Armor Reconnaissance Specialist).

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 1 semester hour in first aid (11/75).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in surveying, 3 for field experience in management, and 1 in first aid, for a total of 7 semester hours (11/75).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in record keeping, 3 in surveying, 3 for field experience in management, and 1 in first aid, for a total of 13 semester hours (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in office administration, 3 in record keeping, 6 in human relations, 3 in surveying, 3 for field experience in management, and 1 in first aid, for a total of 19 semester hours (11/75).

Recommendation, Skill Level 50

In the vocational certificate category, 6 semester hours in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in office administration, 3 in record keeping, 6 in human relations, 6 for field experience in management, 3 in surveying, and 1 in first aid, for a total of 22 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management (11/75).

MOS–11E–002

ARMOR CREWMAN

11E10
11E20
11E30
11E40
11E50

Exhibit Dates: 9/76–Present. Pending evaluation.

MOS–11Z–001

MANEUVER COMBAT ARMS SERGEANT

11Z50

Exhibit Dates: 9/75–Present.

Career Management Field: 11 (Maneuver Combat Arms), *subfield* 110 (General).

Description

Serves as the principal noncommissioned officer in operations and intelligence sections or as the first sergeant at a combined arms headquarters at brigade or higher level; supervises senior noncommissioned officers performing the duties of 11B30 (Infantryman) or 11E50 (Armor Crewman); as an experienced mid-level manager, plans, coordinates, and supervises all activities pertaining to daily operations, training, and administrative activities of subordinate personnel. NOTE: May have progressed to 11Z50 from 11B50 or 11E50.

Recommendation

In the upper-division baccalaureate category, 15 semester hours in business administration and personnel management, 6 in human relations, and 3 for field experience in management, for a total of 24 semester hours (11/75).

MOS–12B–001

COMBAT ENGINEER

12B20
12B30
12B40

Exhibit Dates: 10/73–9/74.

Career Management Field: 12 (Combat Engineering).

Description

Summary: Engages in construction and demolition activities. *Skill Level 20:* Uses hand tools and engineering tools; operates a dump truck; assists with excavation, earthmoving, rigging, and concrete work. *Skill Level 30:* Able to perform the duties required for Skill Level 20; uses basic algebraic skills and physical principles; interprets maps; reads and interprets blueprints; writes technical reports; applies oral communication skills; has a broad knowledge of construction practices. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises teams of construction personnel. NOTE: May have progressed to 12B40 from 12B20, 12B30, or 12F40 (Combat Engineer Tracked Vehicle Crewman).

Recommendation, Skill Level 20

In the vocational certificate category, 12 semester hours in construction equipment operation (2/75).

Recommendation, Skill Level 30

In the vocational certificate category, 12 semester hours in construction equipment operation, 6 in construction methods, 3 in algebra, 1 in applied physics, 1 in blueprint reading, and 2 in communication skills, for a total of 25 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in algebra, 1 in applied physics, 2 in geography (map interpretation), 6 in construction methods, 1 in blueprint reading, and 2 in communication skills, for a total of 15 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in construction equipment operation, 3 in algebra, 1 in applied physics, 2 in geography (map interpretation), 6 in construction methods, 1 in blueprint reading, 2 in communication skills, and 3 in construction supervision, for a total of 33 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in algebra, 1 in applied physics, 2 in geography (map interpretation), 6 in construction methods, 1 in blueprint reading, 2 in communication skills, and 3 in construction supervision, for a total of 18 semester hours (2/75).

MOS–12B–002

COMBAT ENGINEER

12B10
12B20
12B30
12B40

Exhibit Dates: 10/74–8/76).

Career Management Field: 12 (Combat Engineering).

Description

Summary: Engages in construction and demolition activities. *Skill Level 10:* Assists combat engineers, bridge and powered bridge specialists, atomic demolition munitions specialists, and combat engineer tracked vehicle crewmen in performance of duties; uses hand tools and engineering tools. *skill Level 20:* Able to perform the duties required for Skill Level 10; operates a dump truck; assists with excavation, earthmoving, rigging, and concrete work. *Skill Level 30:* Able to perform the duties required for Skill Level 20; acts as demolition expert. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises teams of construction and demolition personnel. NOTE: May have progressed to 12B40 from 12B20, 12B30, or 12F40 (Combat Engineer Tracked Vehicle Crewman).

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in hand tool operation (12/75)

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in construction equipment operation and 3 in hand tool operation (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in demolition operations, 6 in construction equipment operation, and 3 in hand tool operation, for a total of 18 semester hours (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in construction equipment operation, 9 in demolition operations, 2 in geography (map interpretation), 6 in construction methods, 1 in blueprint reading, 2 in communication skills, and 3 in construction supervision, for a total of 38 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, and additional credit in administration and in construction on the basis of institutional evaluation (12/75).

MOS–12B–003

COMBAT EENGINEER

12B10
12B20
12B30
12B40

Exhibit Dates: 9/76–Present. Pending evaluation.

MOS–12C–001

BRIDGE SPECIALIST

12C20
12C30
12C40

Exhibit Dates: 10/73–8/76.

Career Management Field: 12 (Combat Engineering).

Description

Summary: Provides engineer bridging for streams and dry gaps. *Skill Level 20:* Assembles, erects, and disassembles floating and fixed prefabricated bridges; uses rigging techniques; operates rafts and ferries; uses and maintains hand tools. *Skill Level 30:* Able to perform the duties required for Skill Level 20; operates power boats; interprets maps; uses and maintains construction hand tools. *Skill Level 40:* Able to perform the duties required for Skill Levels 20 or 30; supervises bridge construction and repair; interprets maps; determines bridge construction sites; provides work and material estimates; supervises the use of heavy construction equipment; prepares technical reports; supervises a minimum of 10 persons.

Recommendation, Skill Level 20

In the vocational certificate category, 9 se-

mester hours in bridge construction and 3 in use and maintenance of hand tools (2/75).

Recommendation, Skill Level 30

In the vocational certificate category, 12 semester hours in bridge construction, 4 in use and maintenance of construction hand tools, and 4 in power boat operation, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in construction methods and 1 in blueprint reading (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 12 semester hours in bridge construction, 4 in use and maintenance of construction hand tools, 4 in power boat operation, 4 in construction methods, 3 in bridge maintenance, and 3 in construction supervision, for a total of 30 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in construction methods, 3 in construction supervision, 1 in blueprint reading, 2 in geography (map interpretation), 2 in technical writing, 2 in communication skills, and 1 in applied physics, for a total of 17 semester hours (2/75).

MOS–12C–002

BRIDGE CREWMAN

12C10
12C20
12C30
12C40

Exhibit Dates: 9/76–Present. Pending evaluation.

MOS–12D–001

POWERED BRIDGE SPECIALIST

12D20
12D40

Exhibit Dates: 10/73–9/76. (Effective 9/76, MOS 12D was discontinued and its functions were incorporated into MOS 12C, Bridge Crewman.)

Career Management Field: 12 (Combat Engineering).

Description

Summary: Performs or supervises powered bridging and rafting support duties for stream and other wet gap crossing operations; duties are similar to those performed in operating and maintaining ferry boats, tug boats, busses, and heavy duty trucks. *Skill Level 20:* Operates boats, trucks, and heavy duty equipment; connects with other vehicles to form rafts and bridges; holds position with or without anchor; utilizes compasses, ranges, charts, tide and current tables to take bearings and soundings; couples and uncouples bridge units; employs rigging techniques; maintains tools. *Skill Level 40:* Able to perform the duties required for Skill Level 20; interprets blueprints, aerial photographs, maps, and operating diagrams; plans and draws working sketches of crossing points, launching areas, and approach road nets; determines stream flow, effect of stream velocities, high water marks, type of stream bottom, and safe load capacities of rafts and bridges; coordinates use of multiple units; inspects powered bridge components and equipment and supervises periodic and emergency maintenance; prepares technical reports on bridging and rafting activities; supervises powered bridge personnel.

Recommendation, Skill Level 20

In the vocational certificate category, 12 semester hours in boat operation, 3 in heavy equipment operation, and 3 in heavy equipment maintenance, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in heavy equipment operation and 1 in use and care of tools (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in heavy equipment (ferry boat, tug boat, truck, bus) operation, 4 in powered bridge construction, 4 in multiple unit management, 3 in heavy equipment maintenance, 2 in blueprint reading, and 2 in navigation, for a total of 30 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 2 in heavy equipment operation, 2 in navigation, 2 in powered bridge construction management, and 1 in use and care of tools, for a total of 10 semester hours. In the upper-division baccalaureate category, *if the duty assignment was either bridge section sergeant or bridge platoon sergeant*, 3 semester hours for field experience in management (12/75).

MOS–12E–001

ATOMIC DEMOLITION MUNITIONS SPECIALIST

12E20
12E40

Exhibit Dates: 10/73–8/76.

Career Management Field: 12 (Combat Engineering).

Description

Summary: Assembles, arms, disarms, disassembles, tests, monitors, and transports atomic demolition munitions. NOTE: Able to perform the duties required for 12B10 (Combat Engineer). *Skill Level 20:* Interprets aerial photographs and reads maps; prepares atomic demolition munitions for destruction, using conventional demolition materials; employs radiological accident and incident control procedures; handles classified material and employs security procedures; uses engineer handtools; performs combat engineering tasks and simple construction necessary in the employment of atomic demolition munitions. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor, serving as a squad or team leader or as a platoon sergeant; supervises atomic demolition munitions activities; interprets technical literature and instructs subordinates in the use of atomic demolition munitions equipment; enforces safety regulations; advises commander on the employment of the weapon and makes recommendations concerning technical improvements, safety procedures, and security; requisitions supplies and equipment; keeps files of related manuals and regulations; coordinates with other units on storage, security, and transportation of atomic demolition munitions and on communications procedures. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities and these duties were not evaluated.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in the use of hand tools and 1 in map reading (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in the use of hand tools and 1 in map reading. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, 3 for field experience in management, and 3 for field experience in education, for a total of 12 semester hours (6/76).

MOS–12E–002

ATOMIC DEMOLITION MUNITIONS SPECIALIST

12E10
12E20
12E30
12E40

Exhibit Dates: 9/76–Present. Pending evaluation.

MOS–12F–001

COMBAT ENGINEER TRACKED VEHICLE CREWMAN

12F20
12F40

Exhibit Dates: 10/73–9/76. (Effective 9/76, MOS 12F was discontinued and its functions were incorporated into MOS 11E, Armor Crewman.)

Career Management Field: 12 (Combat Engineering).

Description

Summary: Commands or serves as a member of a combat engineer vehicle crew, an armored vehicle launched bridge crew, or a landing vehicle track crew. *Skill Level 20:* Operates combat engineer tracked vehicles over rough or smooth terrain, in sandy, swampy, and marshy areas, or in water; performs operator maintenance on vehicle and communication equipment; observes and reports targets and other combat information; reads compasses, maps, marine charts, and photographs for reconnaissance and terrain analysis and to establish locations; constructs field fortifications and utilizes camouflage; operates special purpose equipment, such as demolition guns, bridge launching mechanisms, mine clearing devices, lifting devices, and power winches; keeps required records and reports. NOTE: May have progressed to Skill Level 20 from 12B10 (Combat Engineer). *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises activities of combat engineer platoons, squads, and crews equipped with tracked vehicles operating independently or with engineer amphibious assault units; judges tide flow and estimates high water marks and types of offshore bottoms; interprets military maps, aerial photographs, and operating diagrams; assists in the preparation of operations directives, reports, and records.

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in operation of tracked construction equipment. In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading or photographic interpretation (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 10 semester hours in operation of tracked construction equipment, 2 in equipment maintenance, 1 in records administration, and 1 in technical mathematics or physics, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading or photographic interpretation, 1 in records administration, and 2 in personnel supervision, for a total of 5 semester hours (12/75).

MOS–12Z–001

COMBAT ENGINEER SENIOR SERGEANT

12Z50

Exhibit Dates: 10/73–8/76.

Career Management Field: 12 (Combat Engineering).

Description

Serves as the principal noncommissioned officer of a combat engineer company, bridge company, or engineering section; capable of the management of personnel and activities in a civilian engineering/construction firm; assists in planning, supervising, and coordinating all company activities; advises company commander on all personnel matters; provides subordinate

supervisors with instructions; inspects work; provides on-the-job training; prepares reports; has a prerequisite knowledge of engineering equivalent to an associate degree in engineering technology. NOTE: May have progressed to 12Z50 from Skill Level 40 of any MOS in the combat engineering career management field (12).

Recommendation

In the upper-division baccalaureate category, 12 semester hours in business administration, 6 in personnel supervision, and 6 for field experience in management, for a total of 24 semester hours (12/75).

MOS–12Z–002

COMBAT ENGINEERING SENIOR SERGEANT

12Z50

Exhibit Dates: 9/76–Present. Pending evaluation.

MOS–13A–001

FIELD ARTILLERY BASIC (CANNONEER)

13A10

Exhibit Dates: 10/73–9/74. (Effective 10/74, MOS 13A was discontinued and its functions were incorporated into 13B10, Field Artillery Crewman.)

Career Management Field: 13 (Field Artillery Cannon).

Description

Serves as a member of a gun crew, ammunition section, or security section; may be a data recorder, truck driver, or ammunition specialist; operates radios, field telephones, and power generating equipment; conducts circuitry tests; uses vernier scales; measures tolerances; performs preventive maintenance on vehicles, generators, and crew-served weapons.

Recommendation

Credit on the basis of institutional evaluation (2/75).

MOS–13B–001

FIELD ARTILLERY CREWMAN

13B10
13B20
13B30
13B40

Exhibit Dates: 10/73–8/76.

Career Management Field: 13 (Field Artillery Cannon).

Description

Summary: Serves in a field artillery unit; reads schematic diagrams; uses wire and radio communications equipment; services hydraulic systems. *Skill Level 10:* Serves as a data recorder, truck driver, or ammunition specialist; operates radios, field telephones, and power generating equipment; conducts circuitry tests; measures tolerances and uses vernier scales; performs preventive maintenance on vehicles, generators, and crew-served weapons. NOTE: Skill Level 10 (formerly 13A10, Field Artillery Basic) was not added to MOS 13B until 10/74. *Skill Level 20:* Under supervision, uses optical measuring devices, adjusts instruments to required tolerances, and performs preventive maintenance on vehicles; knows angular relationships of optical devices in both horizontal and vertical planes. *Skill Level 30:* Able to perform the duties required for Skill Level 20; uses specialized precision tools; uses technical publications; has theoretical background in mechanics, hydraulics, electrical systems, and optical measurement instruments; performs organizational maintenance on wheeled and tracked vehicles, optical instruments, and hydraulic systems; diagnoses and repairs malfunctions. *Skill Level 40:* Able to perform the duties required for Skill Levels 20 or 30; is a first-line supervisor for 8–15 persons; supervises the maintenance of vehicles, instruments, and equipment; prepares technical reports; coordinates record keeping; conducts on-the-job training; inspects the work of subordinates.

Recommendation, Skill Level 10

10/74–8/76. In the vocational certificate category or in the lower-division baccalaureate/associate degree category, credit in measurement and instrumentation, electronic communications, and applied mathematics on the basis of institutional evaluation (3/76).

Recommendation, Skill Level 20

10/73–8/76. In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electric circuits, 1 in measurement and instrumentation, 1 in electronic communications, and 1 in basic mathematics, for a total of 4 semester hours (3/76).

Recommendation, Skill Level 30

10/73–8/76. In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electric circuits, 1 in measurement and instrumentation, 2 in electronic communications equipment operation and troubleshooting, 2 in basic mathematics, and 2 in hydraulics and mechanics, for a total of 8 semester hours (3/76).

Recommendation, Skill Level 40

10/73–8/76. In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electric circuits, 2 in measurement and instrumentation, 2 in electronic communications equipment operation and troubleshooting, 2 in basic mathematics, 2 in hydraulics and mechanics, 1 in equipment management, 1 in personnel management, and 3 in internship (management), for a total of 15 semester hours (3/76).

MOS–13B–002

CANNON CREWMAN

13B10
13B20
13B30
13B40

Exhibit Dates: 9/76–Present.

Career Management Field: 13 (Field Artillery), *subfield* 131 (Field Artillery Cannon/Missile Operations).

Description

Summary: Supervises or serves in a field artillery unit; reads equipment placement and systems diagrams; uses wire and radio communications equipment; services hydraulic systems. *Skill Level 10:* Serves as security guard, cannoneer, vehicle driver, or ammunition specialist; operates radios, field telephones, and power generating equipment; conducts continuity tests; measures tolerances and uses vernier scales; uses metric notation; performs preventive maintenance on vehicles, generators, and crew-served weapons. *Skill Level 20:* Assists the section chief; uses optical measuring devices, adjusts instruments to required tolerances; supervises preventive maintenance on vehicles; knows angular relationships of optical devices in both horizontal and vertical planes; supervises transportation and use of ammunition. *Skill Level 30:* Serves as a section chief, supervising 10–14 persons; instructs in gunnery procedures; uses technical publications; has theoretical background in mechanics, hydraulics, electrical systems, and optical measurement instruments; supervises preventive maintenance on wheeled and tracked vehicles; assures adherence to safety procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 30; is a first-line supervisor for 12–45 persons; supervises the maintenance of vehicles, instruments, and equipment; prepares technical and personnel reports; coordinates record keeping; supervises on-the-job training; inspects the work of subordinates; assures compliance with safety procedures.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in communications systems operation and 1 for field experience in electromechanical and hydraulic maintenance, and additional credit in applied mathematics and in measurements and instrumentation on the basis of institutional evaluation (4/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in basic mathematics, 1 in communications systems operation, 1 for field experience in electromechanical and hydraulic maintenance, and 1 in measurements and instrumentation, for a total of 5 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in basic mathematics, 2 for field experience in electromechanical and hydraulic maintenance, 1 in communications systems operation, and 1 in measurements and instrumentation, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 2 in communication skills, 2 in human relations, 2 in personnel supervision, 2 in basic mathematics, 2 for field experience in electromechanical and hydraulic maintenance, 1 in communications systems operation, and 1 in measurements and instrumentation, for a total of 15 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in communication skills, 3 in human relations, 3 in personnel supervision, 2 in basic mathematics, 2 for field experience in electromechanical and hydraulic maintenance, 1 in communications systems operation, 1 in measurements and instrumentation, and 1 in safety procedures, for a total of 19 semester hours (4/77).

MOS–13E–001

FIELD ARTILLERY CANNON OPERATIONS/FIRE DIRECTION ASSISTANT

13E20
13E40

Exhibit Dates: 10/73–8/76.

Career Management Field: 13 (Field Artillery Cannon).

Description

Summary: Supervises or serves as a member of an operations and intelligence section, liaison section, forward observer party, fire support coordination element, or field artillery cannon fire direction center. *Skill Level 20:* Serves in a field artillery section as a member of a gun crew; plots target locations and constructs firing charts; uses specialized graphs and tables for computing firing locations, angles, corrections, and displacements; operates gun control and gun direction computer; reads maps and aerial photographs; assists in liaison activities with infantry and armor; operates chronograph and computes muzzle velocity; performs preventive maintenance on generators, communications equipment (wire and radio), vehicles, and gun direction computer. *Skill Level 40:*

Able to perform the duties required for Skill Level 20; prepares situation maps; collects and consolidates data for fire control; prepares operations journal; assists in liaison activities with other units, armor, and infantry; determines target distance and azimuth, utilizing optical instruments, compass, maps, mil relation formula, and timing of sound; supervises operation and preventive maintenance of section equipment.

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in basic electric circuits, 1 in measurement and instrumentation, 1 in electronic communications, and 1 in basic mathematics, for a total of 4 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electric circuits, 1 in measurement and instrumentation, 1 in electronic communications, 1 in basic mathematics, and 1 in introduction to computer science, for a total of 5 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in basic electric circuits, 2 in measurement and instrumentation, 2 in electronic communications equipment operation and troubleshooting, 2 in basic mathematics, 2 in hydraulics and mechanics, 1 in equipment management, and 1 in personnel supervision, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electric circuits, 2 in measurement and instrumentation, 2 in electronic communications equipment operation and troubleshooting, 2 in basic mathematics, 2 in hydraulics and mechanics, 1 in equipment macagement, and 1 in personnel supervision, 3 for field experience in management, and 1 in introduction to computer science, for a total of 16 semester hours (3/76).

MOS–13E–002

CANNON FIRE DIRECTION/FIRE SUPPORT SPECIALIST

13E10

13E20

13E30

13E40

Exhibit Dates: 9/76–Present.

Career Management Field: 13 (Field Artillery), *subfield* 131 (Field Artillery Cannon/Missile Operations).

Description

Summary: Supervises or serves as a member of a field artillery fire direction center, liaison section, operations section, or forward observer section. *Skill Level 10:* Uses graphs, tables, and maps for computing firing locations, angles, altitudes, corrections, and displacements; constructs firing charts; computes meteorological, registration, and muzzle velocity corrections; operates gun direction computer (FADAC) or chronograph; installs and operates field wire telephones and switchboards; operates radio transmitter/receiver and speech security equipment; operates and maintains vehicles, section equipment, and generators; maintains situation map, fire support records, reports, and overlays; uses optical instruments, mil relation formula, and data for firing weapons from standardized tables. *Skill Level 20:* Supervises operations within the section; computes firing data and transmits to firing units; computes data corrections; prepares status charts, target lists, and situation maps; participates in reconnaissance. *Skill Level 30:* Supervises computations, operations, and planning; maintains records and reports; processes fire support requests; recommends fire support means; supervises maintenance of equipment, vehicles, and generators. *Skill Level 40:* Supervises fire direction control operations; assists in preparing training schedules, fire support plans, and tactical operations plans; trains, supervises, and evaluates 8–12 persons.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, credit on the basis of institutional evaluation in any of the following areas: applied mathematics, communications systems operation, measurements and instrumentation, map reading, and introduction to computer concepts (4/77).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in basic mathematics, 1 in communications systems operation, 1 in map reading, and 1 in introduction to computer concepts, and additional credit in measurements and instrumentation on the basis of institutional evaluation, for a minimum total of 5 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in basic mathematics, 1 in communications systems operation, 1 in map reading, 1 in introduction to computer concepts, and 1 in personnel supervision, and additional credit in measurements and instrumentation on the basis of institutional evaluation, for a minimum total of 6 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in basic mathematics, 2 in map reading, 1 in communications systems operation, and 1 in introduction to computer concepts, and additional credit in measurements and instrumentation on the basis of institutional evaluation, for a minimum total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 2 in personnel supervision, 2 in communication skills, 2 in human relations, 2 in basic mathematics, 2 in map reading, 1 in communications systems operation, and 1 in introduction to computer concepts, and additional credit in measurements and instrumentation on the basis of institutional evaluation, for a minimum total of 15 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in personnel supervision, 3 in communication skills, 3 in human relations, 2 in basic mathematics, 2 in map reading, 1 in communications systems operation, 1 in introduction to computer concepts, and 1 in safety procedures, and additional credit in measurements and instrumentation on the basis of institutional evaluation, for a minimum total of 19 semester hours (4/77).

MOS–13W–001

FIELD ARTILLERY TARGET ACQUISITION SENIOR SERGEANT

13W50

Exhibit Dates: 9/76–Present.

Career Management Field: 13 (Field Artillery), *subfield* 132 (Field Artillery Target Acquisition Operations).

Description

Supervises intelligence activities in a field-artillery-cannon, rocket, missile, and target-acquisition activity; serves as the principal noncommissioned officer in a target-acquisition battery; coordinates target-acquisition collection activities; collects, interprets, analyzes, and evaluates intelligence and target-acquisition data; plots, records, and reports targets; reads and interprets maps and aerial photos; keeps situation maps, charts, and overlays; processes security clearances; maintains files and records; prepares reports. NOTE: May have progressed to 13W50 from 17B40 (Field Artillery Radar Crewman), 17C40 (Field Artillery Target Acquisition Specialist), 82C40 (Field Artillery Surveyor), or 93F40 (Field Artillery Meteorological Crewman).

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in supervision and leadership, and 6 for field experience in management, and additional credit in map reading and aerial photo interpretation on the basis of institutional evaluation, for a minimum total of 12 semester hours (5/77).

MOS–13Y–001

CANNON/MISSILE SENIOR SERGEANT

13Y50

Exhibit Dates: 9/76–Present.

Career Management Field: 13 (Field Artillery), *subfield* 131 (Field Artillery Cannon/Missile Operations).

Description

Supervises operations and fire support activities in a field artillery battalion or serves as the principal noncommissioned officer in a field-artillery-cannon, missile, or rocket battery; prepares and distributes maps, operational information, operation reports, and training material; participates in coordination and implementation of cannon, missile, or rocket operations, training programs, administrative matters, and communication activities; maintains staff journals, files, and records; prepares reports. NOTE: May have progressed to 13Y50 from 13B40 (Cannon Crewman), 13E40 (Cannon Fire Direction/Fire Support Specialist), 15D40 (Lance Missile Crewman), 15E40 (Pershing Missile Crewman), or 15J40 (Lance/Honest John Operations/Fire Direction Specialist).

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in supervision and leadership, and 6 for field experience in management, for a total of 12 semester hours (5/77).

MOS–13Z–001

FIELD ARTILLERY SENIOR SERGEANT (FIELD ARTILLERY CANNON SENIOR SERGEANT)

13Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 13 (Field Artillery).

Description

Serves as the principal noncommissioned officer in a major field artillery organization; supervises operations, intelligence activities, and liaison activities; assists superiors in planning, coordinating, and supervising all operations and personnel matters; holds meetings with subordinate noncommissioned officers to provide guidance and direction; directs on-the-job traing; is a mid-level manager overseeing 45–150 persons. NOTE: May have progressed from 13B40 (Field Artillery Crewman), 13E40 (Field Artillery Cannon Operations/Fire Direction Assistant), 13W50 (Field Artillery Target Acquisition Senior Sergeant), or 13Y50 (Cannon/Missile Senior Sergeant).

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in human relations, and 6 for field experience in management, and additional credit in public speaking and for an internship in education on the basis of institutional evaluation, for a minimum total of 15 semester hours (3/76, 4/77).

MOS–15B–001

SERGEANT MISSILE CREWMAN

15B10
15B20
15B30
15B40

Exhibit Dates: 10/73–8/76.

Career Management Field: 15 (Field Artillery Missiles).

Description

Summary: Is familiar with the mechanical energy conversion, hydraulics, and pneumatic systems; understands both rocket and missile technology and the operation of missile guidance components, electrical subsystems, and communications systems as utilized in coordinated launch processes; operates mechanical equipment, optical devices, and gas turbine generators. *Skill Level 10:* Under supervision, assists in basic missile system operations, including receiving, handling, and assembling missile parts and components; uses radio and telephone communications equipment; tests and maintains equipment; operates gas turbine generator set. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates heavy equipment boom in handling and assembling major missile components; assists in operating the computer-firing set used in missile countdown and self-test procedures; checks out the guidance system, propulsion system, and electrical system; uses azimuth-orienting devices; understands and applies precision standards in optical measurement, mechanical tolerances, and computer-based self-test data prior to launch. *Skill Level 30:* Able to perform the duties required for Skill Level 20; can serve as the principal operator of an azimuth orientation unit, the test station equipment, or the firing set; conducts countdown procedures; coordinates communications between stations at the launch site; computes firing data. *Skill Level 40:* Able to perform the duties required for Skill Levels 20 or 30; is a first-line supervisor for a minimum of 15 persons; supervises the operations of the missile system at the launch site; directs the emplacement and relocation of launch stations; coordinates assembling, inspecting, testing, and firing of the missiles; maintains equipment records; verifies computations and conversions of firing data and guidance system data.

Recommendation, Skill Level 10

Credit on the basis of institutional evaluation (3/75).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in measurements and instrumentation, 1 in rocket engines and guidance systems, and 1 in mechanical technology (hydraulics, pneumatics, and energy conversion), for a total of 4 semester hours (3/75).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronic circuits, 2 in measurement and instrumentation, 1 in management of equipment and personnel, 2 in rocket engines and guidance systems, and 2 in mechanical technology (hydraulics, pneumatics, and energy conversion), for a total of 9 semester hours (3/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronic circuits, 2 in measurement and instrumentation, 2 in management of equipment and personnel, 2 in mechanical technology (hydraulics, pneumatics, and energy conversion), 2 in rocket engines and guidance systems, 2 in public speaking, and 3 for a practicum in management, for a total of 15 semester hours (3/75).

MOS–15B–002

SERGEANT MISSILE CREWMAN

15B10
15B20
15B30

Exhibit Dates: 9/76–Present.

Career Management Field: 13 (Field Artillery), *subfield* 131 (Field Artillery Cannon/Missile Operations).

Description

Summary: Is familiar with the mechanical-energy-conversion, hydraulic, and pneumatic systems; understands rocket and missile technology and the operation of missile guidance components, electrical subsystems, and communications systems as utilized in coordinated launch processes; operates mechanical equipment, optical devices, and gas-turbine generators. *Skill Level 10:* Under supervision, assists in basic missile system operations, including receiving, handling, and assembling missile parts and components; uses radio and telephone communications equipment; participates in emplacement of azimuth-orienting equipment; tests and maintains equipment; operates gas turbine generator set. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists in operating the computer-firing set used in missile countdown and self-test procedures; checks out the guidance system, propulsion system, and electrical system; uses azimuth-orienting devices; understands and applies precision standards in optical measurement, mechanical tolerances, and computer-based self-test data prior to launch; supervises receipt, storage, and preparation of ammunition for delivery to firing and missile test section; assists in supervising assembly and disassembly of the missile and emplacement of launcher. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as section chief and first-line supervisor for 9–11 subordinates; serves as the principal noncommissioned officer in a unit of approximately 70 persons; supervises preparation for missile section tests, missile check-out, and preparation for travel; supervises work techniques, work distribution, and maintenance.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours for field experience in electromechanical and hydraulic maintenance, and credit in electric circuitry, measurement and instrumentation, and rocket engines and components, on the basis of institutional evaluation (4/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in measurement and instrumentation, 1 in communications systems operation, and 2 for field experience in electromechanical and hydraulic maintenance, for a total of 6 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in communications systems operation, 1 in measurement and instrumentation, 2 for field experience in electromechanical and hydraulic maintenance, 2 in communication skills (oral and written), 2 in human relations, 2 in personnel supervision, and 3 for field experience in management, for a total of 15 semester hours (4/77).

MOS–15D–001

LANCE MISSILE CREWMAN

15D10
15D20
15D40

Exhibit Dates: 10/73–8/76.

Career Management Field: 15 (Field Artillery Missile).

Description

Summary: Supervises or serves as a member of a Lance missile crew. *Skill Level 10:* Under supervision, assists in basic missile operations, including receiving, handling, and assembling missile components; uses radio and telephone communications equipment; performs operator maintenance and assists in routine maintenance of equipment, missiles, weapons, and vehicles; operates gas turbine generator set. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates heavy equipment boom in handling and assembling major missile components; assists in operating the computer firing set used in missile countdown and self-test procedures; is familiar with the mechanical technology of guided missiles, including thrust propulsion, energy conversion, hydraulics, and pneumatic systems; checks out the guidance, propulsion, and electrical missile systems; uses azimuth orienting devices; applies precision standards in optical measurement and mechanical tolerances. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor for 10 or more persons; supervises missile operations at the launch site, coordinating the assembly, inspection, testing, and firing of missiles; establishes and maintains equipment records; verifies computations and conversion of firing data and guidance system data; directs the emplacement and relocation of launch stations.

Recommendation, Skill Level 10

In the vocational certificate category, credit in heavy equipment operation and maintenance and in surveying on the basis of institutional evaluation (3/76).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 1 semester hour in measurements and instrumentation, 1 in missile guidance and propulsion systems, and 1 in mechanical technology (hydraulics, pneumatics, and energy conversion), for a total of 3 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 2 semester hours in measurements and instrumentation, 2 in guidance and propulsion systems, 2 in mechanical technology (hydraulics, pneumatics, and energy conversion), 3 in human relations, 1 in public speaking, and 3 for field experience in management, for a total of 13 semester hours (3/76).

MOS–15D–002

LANCE MISSILE CREWMAN

15D10
15D20
15D30
15D40

Exhibit Dates: 9/76–Present.

Career Management Field: 13 (Field Artillery), *subfield* 131 (Field Artillery Cannon/Missile Operations).

Description

Summary: Supervises or serves as member of Lance missile crew, or supervises Honest John rocket firing battery or Sergeant missile crew. *Skill Level 10:* Participates in positioning, emplacement, assembly, and preparation of Lance missile for firing; operates missile-handling equipment; performs maintenance on equipment, missiles, weapons, carrier, unit vehicles, and communications equipment; oper-

ates gas turbine generator set; uses radio and telephone communication equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists section chief in firing or assembly and transport section and serves as section chief in ammunition or security section; operates heavy-equipment boom in handling and assembling major missile components; assists in supervision of receipt, storage, handling, assembly, and transporting missile to firing section; uses azimuth-orienting devices. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises preparation of launcher and missile for firing; supervises receipt, storage, handling, assembly, mating, movement, and firing of missile; serves as section chief and first-line supervisor for 9–11 subordinates; supervises work techniques, work distribution, and maintenance; supervises maintenance of missiles and section equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as first-line supervisor for 11 or more persons; directs positioning, emplacement, and employment of firing sections; establishes and maintains equipment records; verifies computations and conversion of firing data and guidance system data; reviews and prepares technical, personnel, administrative, and readiness reports on unit activities. NOTE: May have progressed to 15D40 from 15D30, 15B30 (Sergeant Missile Crewman), or 15F30 (Honest John Rocket Crewman).

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours for field experience in electromechanical and hydraulic maintenance, and credit in electric circuitry, measurement and instrumentation, and rocket engines and components on the basis of institutional evaluation (4/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in measurement and instrumentation, 1 in communications systems operation, and 2 for field experience in electromechanical and hydraulic maintenance, for a total of 6 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in communications systems operation, 1 in measurement and instrumentation, 2 for field experience in electromechanical and hydraulic maintenance, 2 in communication skills (oral and written), 2 in human relations, 2 in personnel supervision, and 3 for field experience in management, for a total of 15 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in communications systems operation, 1 in measurement and instrumentation, 2 for field experience in electromechanical and hydraulic maintenance, 3 in communication skills (oral and written), 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and 1 in safety procedures, for a total of 19 semester hours (4/77).

MOS–15E–001

PERSHING MISSILE CREWMAN

15E10
15E20
15E30
15E40

Exhibit Dates: 10/73–8/76.

Career Management Field: 15 (Field Artillery Missile).

Description

Summary: Supervises or serves as a member of a Pershing missile crew. *Skill Level 10:* Under supervision, assists in basic missile system operations, including receiving, handling, and assembling missile components; uses radio and telephone communications equipment; operates gas turbine generator set; operates wrecker boom and tracked vehicles; performs operator maintenance on wheeled vehicles. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates equipment necessary to position launch vehicles and to assemble missiles; installs and monitors special equipment; operates erector-launcher control panel; operates power station to provide electrical power and pressurized air for the missile system; performs operator maintenance on system equipment; is familiar with the mechanical technology of guided missiles, including thrust propulsion, energy conversion, hydraulics, and pneumatic systems; operates optical devices. *Skill Level 30:* Able to perform the duties required for Skill Level 20; applies precision standards in optical measurement and mechanical tolerances; connects and operates computerized missile launch control system; aligns missile guidance platform on the firing azimuth; positions, assembles, and levels theodolite. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; is a first-line supervisor for 11 or more persons; supervises missile operations at the launch site, coordinating the assembly, inspection, testing, and firing of missiles; directs the emplacement and relocation of launch stations; establishes and maintains equipment records; verifies computations and conversions of firing data and guidance system data; coordinates liaison activities.

Recommendation, Skill Level 10

In the vocational certificate category, credit in heavy equipment operation and maintenance and in surveying on the basis of institutional evaluation (3/76).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 1 semester hour in measurements and instrumentation, 1 in missile guidance and propulsion systems, and 1 in mechanical technology (hydraulics, pneumatics, and energy conversion), for a total of 3 semester hours (3/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 2 semester hours in measurements and instrumentation, 2 in guidance and propulsion systems, and 2 in mechanical technology (hydraulics, pneumatics, and energy conversion), for a total of 6 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 2 semester hours in measurements and instrumentation, 2 in guidance and propulsion systems, 2 in mechanical technology (hydraulics, pneumatics, and energy conversion), 3 in human relations, 1 in public speaking, and 3 for field experience in management, for a total of 13 semester hours (3/76).

MOS–15E–002

PERSHING MISSILE CREWMAN

15E10
15E20
15E30
15E40

Exhibit Dates: 9/76–Present.

Career Management Field: 13 (Field Artillery), *subfield* 131 (Field Artillery Cannon/Missile Operations).

Description

Summary: Supervises or serves as a member of a Pershing missile crew. *Skill Level 10:* Under supervision, assists in launcher emplacement and receipt, assembly, disassembly, transporting, and storing of missile and missile components; uses radio and telephone communications equipment; operates gas-turbine generator set; operates wrecker boom and tracked vehicles; performs maintenance on vehicles and field communications equipment; participates in emplacement and operation of azimuth reference unit. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates equipment necessary to position launch vehicles and to assemble missiles; installs and monitors special equipment; operates erector launcher control panel during mating, recovery, and firing operations; is familiar with the mechanical technology of guided missiles, including thrust propulsion, energy conversion, hydraulics, and pneumatic systems; supervises operations performed by missile handlers while drawing, transporting, and storing missiles and components; assists in supervising crew during missile prefire, firing, post-firing, assembly, and disassembly operations. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as section chief and first-line supervisor for 9–11 subordinates; supervises emplacement and preparation of missile for firing; supervises work techniques, work distribution, and maintenance; supervises positioning and operation of azimuth-laying equipment or azimuth reference unit; supervises missile storage, maintenance, assembly, disassembly, and firing procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 30; is a first-line supervisor for 11 or more persons; supervises operation of firing, ammunition, or security platoon or battery control central section; supervises procurement, distribution, and testing of missile and missile components; serves as principal noncommissioned officer; prepares operation reports; participates in coordination and implementation of Pershing missile operations, training programs, administrative matters, and communications activities.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours for field experience in electromechanical and hydraulic maintenance, and credit in electric circuitry, measurement and instrumentation, and rocket engines and components on the basis of institutional evaluation (4/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in measurement and instrumentation, 1 in communications systems operation, and 2 for field experience in electromechanical and hydraulic maintenance, for a total of 6 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in communications systems operation, 1 in measurement and instrumentation, 2 for field experience in electromechanical and hydraulic maintenance, 2 in communication skills (oral and written), 2 in human relations, 2 in personnel supervision, and 3 for field experience in management, for a total of 15 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in communication systems operation, 1 in measurement and instrumentation, 2 for field experience in electromechanical and hydraulic maintenance, 3 in communication skills (oral and written), 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and 1 in safety procedures, for a total of 19 semester hours (4/77).

MOS–15F–001

HONEST JOHN ROCKET CREWMAN

15F10
15F20
15F40

Exhibit Dates: 10/73–8/76.

Career Management Field: 15 (Field Artillery Missiles).

Description

Summary: Is familiar with precision standards of mechanical and electrical systems of rocketry and with processes and procedures for launch and communications systems/equipment necessary for coordination of activities; operates optical and electrical test devices such as anemometer, multimeter, micrometer aiming circle, and panoramic telescope; knows procedures for receiving, transporting, assembling, and loading rocket or launcher; knows procedure for tests of circuitry; performs maintenance on generators, vehicle, launcher, and allied equipment associated with preparation of rockets for launching. *Skill Level 10:* Under supervision, assists in receiving, storing, handling, assembling, and inspecting rocket components; assists in emplacing launcher with associated launch equipment and accessories; understands and uses communications equipment (telephone and radio), test instruments, electronic instruments; performs electrical circuitry tests; maintains vehicles and launch equipment; understands mechanics of rocket power and thrust. *Skill Level 20:* Able to perform the duties required for Skill Level 10; does some troubleshooting; is familiar with optical as well as electronic measuring instruments and tolerances (or precision). *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor for 5–11 subordinates; coordinates receiving, handling, and assembly of rockets; coordinates loading and inspection operations; serves as gunner at each launching; serves as a principal noncommissioned officer in a unit of approximately 70 persons.

Recommendation, Skill Level 10

Credit on the basis of institutional evaluation (1/75).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in electronic communications operations, and 1 in measurements and instrumentation, for a total of 4 semester hours (1/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in management internship experience, 2 in basic electronic circuits, 2 in rocket engines and components, 2 in measurements and instrumentation, 2 in equipment management or personnel management, and 2 in public speaking, for a total of 13 semester hours (1/75).

MOS–15F–002

HONEST JOHN ROCKET CREWMAN

15F10
15F20
15F30

Exhibit Dates: 9/76–Present.

Career Management Field: 13 (Field Artillery), *subfield* 131 (Field Artillery Cannon/Missile Operations).

Description

Summary: Is familiar with precision standards of mechanical and electrical systems of rocketry and with processes and procedures for launch and communications systems/equipment necessary for coordination of activities; operates optical and electrical test devices such as anemometer, multimeter, micrometer aiming circle, and panoramic telescope; knows procedures for receiving, transporting, assembling, and loading rocket or launcher; knows procedure for tests of circuitry; performs maintenance on generators, vehicle, launcher, and allied equipment associated with preparation of rockets for launching. *Skill Level 10:* Under supervision, assists in receiving, storing, handling, assembling, and inspecting rocket components; assists in emplacing launcher with associated launch equipment and accessories; understands and uses communications equipment (telephone and radio), test instruments, electronic instruments; performs electrical circuitry tests; maintains vehicles and launch equipment; understands mechanics of rocket power and thrust. *Skill Level 20:* Able to perform the duties required for Skill Level 10; does some troubleshooting; is familiar with optical as well as electronic measuring instruments and tolerances (or precision); serves as gunner for each launching; performs supervisory function in maintaining launcher, windset, handling equipment, and warhead test equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as section chief and first-line supervisor of 9–11 persons; supervises emplacement and firing of rocket; supervises work techniques, work distribution, and maintenance; coordinates receiving, handling, and assembly of rockets; coordinates loading and prefire inspection operations; serves as principal noncommissioned officer in a unit of approximately 70 persons.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours for field experience in electromechanical and hydraulic maintenance, and credit in electric circuitry, measurement and instrumentation, and rocket engines and components, on the basis of institutional evaluation (4/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in measurement and instrumentation, 1 in communications systems operation, and 3 for field experience in electromechanical and hydraulic maintenance, for a total of 7 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electronic circuits, 1 in rocket engines and components, 1 in communications systems operation, 1 in measurement and instrumentation, 3 for field experience in electromechanical and hydraulic maintenance, 2 in communication skills (oral and written), 2 in human relations, 2 in personnel supervision, and 3 for field experience in management, for a total of 16 semester hours (4/77).

MOS–15J–001

LANCE/HONEST JOHN OPERATIONS/FIRE DIRECTION ASSISTANT

15J20
15J40

Exhibit Dates: 10/73–8/76.

Career Management Field: 15 (Field Artillery Missile).

Description

Summary: Supervises or serves as a member of a Lance/Honest John missile crew. *Skill Level 20:* Collects and evaluates observer data for fire control; uses specialized charts and tables to compute firing data; plots targets and computes range, altitude, and azimuth; reads and prepares maps; performs operator maintenance on gun direction computer, desk calculators, generators, communications equipment (wire and radio), and vehicles. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises all operations of fire detection activity to insure proper computations and data evaluations; performs liaison activities for collection and dissemination of missile firing data.

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in basic electric circuits, 1 in measurement and instrumentation, 1 in electronic communications, and 1 in basic mathematics, for a total of 4 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic electric circuits, 1 in measurement and instrumentation, 1 in electronic communications, 1 in basic mathematics, and 1 in introduction to computer science, for a total of 5 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in basic electric circuits, 2 in measurement and instrumentation, 2 in electronic communications equipment operation and troubleshooting, 2 in basic mathematics, 2 in hydraulics and mechanics, 1 in equipment management, and 1 in personnel supervision, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electric circuits, 2 in measurement and instrumentation, 2 in electronic communications equipment operation and troubleshooting, 2 in basic mathematics, 2 in hydraulics and mechanics, 1 in equipment management, 1 in personnel supervision, 3 for field experience in management, and 1 in introduction to computer science, for a total of 16 semester hours (3/76).

MOS–15J–002

LANCE/HONEST JOHN OPERATIONS/FIRE DIRECTION SPECIALIST

15J10
15J20
15J30
15J40

Exhibit Dates: 9/76–Present.

Career Management Field: 13 (Field Artillery), *subfield* 131 (Field Artillery Cannon/Missile Operations).

Description

Summary: Supervises or serves as member of a Lance or Honest John missile crew. *Skill Level 10:* Assists in computation of firing data; reads and prepares maps; operates and maintains fire direction center communications equipment and vehicles; participates in the gathering of operations and intelligence data; participates in operations and liaison activities. *Skill Level 20:* Able to perform the duties required for Skill Level 10; computes firing data; plots targets and computes range, altitude, and azimuth to target; operates and performs maintenance on gun direction computer. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists in supervision of all operations of the fire direction center; performs liaison activities, including collection and trans-

mission of data. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises operations of fire direction center to insure proper computations, plotting of targets, and issuance of fire commands; plans and organizes work schedules; instructs subordinate personnel in techniques and procedures in computation of firing data; reviews and prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in map reading and interpretation, and 1 for field experience in electromechanical and hydraulic maintenance, and credit in electric circuitry, measurement and instrumentation, and rocket engines and components on the basis of institutional evaluation, for a minimum total of 2 semester hours (4/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in map reading and interpretation, 1 for field experience in electromechanical and hydraulic maintenance, 1 in measurement and instrumentation, 1 in communications systems operation, 1 in basic mathematics, and 1 in introduction to computer concepts, and credit in electronic circuits on the basis of institutional evaluation, for a minimum total of 6 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in map reading and interpretation, 1 for field experience in electromechanical and hydraulic maintenance, 1 in measurement and instrumentation, 1 in communications systems operation, 1 in basic mathematics, 1 in introduction to computer concepts, 2 in communication skills (oral and written), 2 in human relations, 2 in personnel supervision, and 3 for field experience in management, and credit in electronic circuits on the basis of institutional evaluation, for a minimum total of 15 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. in the lower-division baccalaureate/associate degree category, 1 semester hour in map reading and interpretation, 1 for field experience in electromechanical and hydraulic maintenance, 1 in measurement and instrumentation, 1 in communications systems operation, 1 in basic mathematics, 1 in introduction to computer concepts, 3 in communication skills (oral and written), 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and 1 in safety procedures, and credit in electronic circuits on the basis of institutional evaluation, for a minimum total of 19 semester hours (4/77).

MOS–15Z–001

FIELD ARTILLERY MISSILE/ROCKET SENIOR SERGEANT

15Z50

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 15Z was discontinued and its functions were incorporated into Skill Level 50 of MOS 13W, Field Artillery Target Acquisition Senior Sergeant, MOS 13Y, Cannon/Missile Senior Sergeant, or MOS 13Z, Field Artillery Senior Sergeant.)

Career Management Field: 15 (Field Artillery Missile).

Description

NOTE: Able to perform the duties of Skill Level 40 in any MOS in career management field 15. Serves as the principal noncommissioned officer in a field artillery missile unit; supervises operations, intelligence activities, and liaison activities; assists superiors in planning, coordinating, and supervising all unit activities and personnel matters; is a mid-level manager who supervises 45–150 persons; directs on-the-job training; holds meetings with subordinate noncommissioned officers to provide guidance and direction.

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in human relations, and 6 for field experience in management, and additional credit in public speaking and for internship in education on the basis of institutional evaluation, for a minimum total of 15 semester hours (3/76).

MOS–16B–001

HERCULES MISSILE CREWMAN

16B10
16B20
16B40

Exhibit Dates: 10/73–8/75.

Career Management Field: 16 (Air Defense Artillery), *subfield* 161 (Air Defense Artillery Missile Operations).

Description

Summary: Engages in launching activities of surface-to-air missiles. *Skill Level 10:* Under supervision, participates in the emplacement and displacement of missile launchers and associated equipment; checks missile components and related equipment; assists in assembling the rocket and attaching it to the launcher; performs the duties of switchboard operator; knows safety precautions necessary for working with high voltage potentials and propellants. *Skill Level 20:* Able to perform the duties required for Skill Level 10; under supervision, participates in pre-fire checks and adjustments to missiles; assists in testing, adjusting, and replacing defective components; performs preventive maintenance on missile, launching equipment, handling equipment, transport trailers, light vehicles, and power equipment; assists in receiving, unpacking, inspecting, assembling, and storing explosive heads and related equipment. (Possible duty assignments include assembly crewman, fire panel operator, launcher crewman, senior launcher crewman, and senior assembly crewman.) *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor of a launching section or platoon; directs the emplacement and displacement of missile launcher and related equipment; supervises the preparation and orientation of the missile for launching; enforces safety precautions; supervises low-level maintenance of launchers and related equipment; interprets technical material for subordinate personnel.

Recommendation, Skill Level 10

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (2/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in electronic test equipment, 2 in introduction to electric circuits, and 3 for field experience in management, for a total of 6 semester hours *only if the duty assignment was either senior launcher or senior assembly crewman* (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic test equipment, 3 in introduction to electric circuits, 3 in basic electronic circuits, and 6 for field experience in management, for a total of 14 semester hours (2/75).

MOS–16B–002

HERCULES MISSILE CREWMAN

16B10
16B20
16B30
16B40

Exhibit Dates: 9/75–Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 161 (Air Defense Artillery Missile and Gun Operations).

Description

Summary: Engages in launching activities of surface-to-air missiles. *Skill Level 10:* Under supervision, assembles, prepares, and maintains Nike-Hercules missile for launching; participates in the emplacement and displacement of missile launchers and associated equipment; checks missile components and related equipment; assists in assembling the rocket and attaching it to the launcher; performs the duties of switchboard operator; knows safety precautions necessary for working with high voltage potentials and propellants. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; assists in testing, adjusting, and replacing defective components; performs preventive maintenance on missile, launching equipment, handling equipment, transport trailers, light vehicles, and power equipment; assists in receiving, inspecting, assembling, transporting, and storing explosive warheads and related equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises launching section operations in a Nike-Hercules missile battery; reads and interprets technical material pertaining to missile components and related equipment; supervises crew training and preventive maintenance. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises launch fire control platoon operations in a Nike-Hercules missile battery; is a first-line supervisor of a launching platoon; directs the emplacement and displacement of missile launcher and related equipment; supervises the preparation and orientation of the missile for launching; enforces safety precautions. NOTE: May have progressed to 16B40 from 16B30 or 16C30 (Hercules Fire Control Crewman).

Recommendation, Skill Level 10

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (2/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in introductory electronics and additional credit in mechanical maintenance on the basis of institutional evaluation. In an electronic technician apprentice training program, 100 clock hours of experience and 20 contact hours of related instruction (2/76).

Recommendation, Skill Level 30

In the vocational certificate category, 1 semester hour in introductory electronics and additional credit in mechanical maintenance on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 1 in introductory electronics, and additional credit in mechanical maintenance on the basis of institutional evaluation, for a minimum total of 4 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 1 semester hour in introductory electronics and additional credit in mechanical maintenance on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, 3 for field experi-

ence in management, 1 in introductory electronics, and additional credit in mechanical maintenance on the basis of institutional evaluation, for a minimum total of 10 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–16C–001

HERCULES FIRE CONTROL CREWMAN

16C10
16C20
16C30

Exhibit Dates: 9/75–Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 161 (Air Defense Artillery Missile and Gun Operations).

Description

Summary: Engages in fire control activities of surface-to-air missiles. *Skill Level 10:* Operates fire control equipment and associated test equipment for Nike-Hercules missiles; performs preventive maintenance on radars, automatic data transmission systems, and associated power supply equipment; makes basic adjustments and corrects simple malfunctions of fire control equipment; recognizes various types of jamming and employs electronic counter-countermeasure procedures; exercises safety precautions when working around high voltage potentials. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises over 20 persons in a fire control section; interprets intelligence information; reviews logs containing operating data; enforces safety precautions and security requirements; supervises maintenance; directs on-the-job training.

Recommendation, Skill Levels 10 and 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (2/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations (2/76).

MOS–16D–001

HAWK MISSILE CREWMAN

16D10
16D20
16D30
16D40

Exhibit Dates: 9/75–Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 161 (Air Defense Artillery Missile and Gun Operations).

Description

Summary: Serves as a member of or supervises the operation of a firing platoon, an assembly section, or a service and maintenance section of a Hawk missile battery. *Skill Level 10:* Maintains and prepares Hawk missile and associated equipment for launching; participates in the unloading and emplacement of equipment; assists in assembling, arming, and disarming the missile; performs routine preventive maintenance on launch and handling equipment; assists in performing checks and adjustments; observes safety precautions. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises the assembly, testing, arming, disarming, loading, and unloading of Hawk missiles; supervises the transportation and emplacement of equipment; supervises preventive maintenance and coordinates organizational maintenance of launch and loading equipment. *Skill Level 40:* Able to perform the duties required for 16D30 or 16E30 (Hawk Fire Control Crewman); serves as platoon sergeant, supervising over 20 persons; plans and organizes security arrangements; interprets intelligence information; supervises maintenance of equipment.

Recommendation, Skill Level 10

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (2/76).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in hydraulic and electrohydraulic systems (2/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in hydraulic and electrohydraulic systems. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in hydraulic and electrohydraulic systems. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 9 semester hours (2/76).

MOS–16E–001

HAWK FIRE CONTROL CREWMAN

16E10
16E20
16E30

Exhibit Dates: 9/75–Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 161 (Air Defense Artillery Missile and Gun Operations).

Description

Summary: Serves as a member of or supervises a command and acquisition of a firing section of a Hawk firing platoon. *Skill Level 10:* Operates fire control equipment or engagement simulator; operates and performs operator maintenance checks and adjustments on Hawk missile fire control equipment; observes safety precautions. *Skill Level 20:* Performs the duties required for Skill Level 10 (with the exception of operating engagement simulator) and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises approximately 10 persons operating Hawk fire control equipment; prepares radar coverage and clutter diagrams; determines known reference point; supervises moving and placement of equipment.

Recommendation, Skill Levels 10 and 20

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (2/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations (2/76).

MOS–16F–001

LIGHT AIR DEFENSE ARTILLERY CREWMAN (RESERVE FORCES)

16F10
16F20
16F30
16F40

Exhibit Dates: 10/73–Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 161 (Air Defense Artillery Missile and Gun Operations).

Description

Summary: Supervises or serves as a member of a light air defense artillery automatic weapons, machinegun, or ammunition platoon, section, or squad. *Skill Level 10:* Loads ammunition and fires automatic weapons; operates computing sight; operates communications equipment; performs operator maintenance on automatic weapons; requisitions, receives, stores, and distributes ammunition. *Skill Level 20:* Able to perform the duties required for Skill Level 10; leads air defense artillery automatic weapons squad of approximately 10 persons; serves as assistant ammunition sergeant. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and coordinates the activities of subordinate squads; assures that operator maintenance standards are attained. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises the operations of an automatic weapons platoon of approximately 30 persons.

Recommendation, Skill Levels 10 and 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (2/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations (2/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 3 for field experience in management, for a total of 9 semester hours (2/76).

MOS–16H–001

AIR DEFENSE ARTILLERY (ADA) OPERATIONS AND INTELLIGENCE ASSISTANT

16H10
16H20
16H30
16H40

Exhibit Dates: 9/75–Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 162 (Air Defense Artillery Operations and Intelligence).

Description

Summary: Supervises or serves as a member of an air defense artillery activity engaged in operations or intelligence functions to prepare and revise operations data and situation maps. *Skill Level 10:* Performs plotting and operations or intelligence duties in an air defense artillery unit; plots, reports, and records operations or intelligence information by preparing charts, overlays, strip maps, training aids, logs, reports, and correspondence; installs and operates field telephone equipment. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; collects and consolidates information from related units; prepares training materials and coordinates training activities; transmits intelligence and grid locations to other units. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises operations; demonstrates correct procedures and techniques; supervises the preparation of situation maps and overlays; coordinates operations and intelligence data; supervises operation of communications equipment. *Skill Level 40:* Able to perform the duties required for 16H30 or 16J30 (Defense Acquisition Radar Operator); as a first sergeant, supervises 20 or more persons in an airspace control element; supervises and evaluates training; prepares operations plans; assists in reconnaissance.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 2 semester hours in map reading (2/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading and 3 in human relations (2/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 12 semester hours (2/76).

MOS–16J–001

DEFENSE ACQUISITION RADAR CREWMAN

16J10

16J20

16J30

Exhibit Dates: 9/75–Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 162 (Air Defense Artillery Operations and Intelligence).

Description

Summary: Supervises or serves as a member of a defense acquisition radar section or a forward area alerting radar unit. *Skill Level 10:* Operates radars and IFF (identification-friend-or-foe) equipment to obtain early warning and target identification data; manipulates radar adjustments to achieve optimum operating performance; observes, tracks, and interprets targets; reads topographic maps to locate points by means of coordinates and prepares grid overlays to plot positions; employs electronic countermeasures to avoid signal jamming; prepares records; performs operator maintenance; follows safety procedures; uses special test equipment to insure proper radar operation and maintenance; installs and operates communications equipment; operates power generating equipment. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises over 20 persons; supervises operation and maintenance of radar and related equipment; directs on-the-job training; maintains equipment records; interprets intelligence information.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, credit in surveying on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading (2/76).

Recommendation, Skill Level 30

In the vocational certificate category, credit in surveying on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 2 semester hours in map reading and 3 in human relations (2/76).

MOS–16P–001

ADA (AIR DEFENSE ARTILLERY) SHORT RANGE MISSILE CREWMAN
(CHAPARRAL CREWMAN)

16P10

16P20

16P30

Exhibit Dates: 9/75–Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 161 (Air Defense Artillery Missile and Gun Operations).

Description

Summary: Supervises or serves as a crewman in a Chaparral system unit or as a gunner in a Redeye section. *Skill Level 10:* Prepares Chaparral fire unit for firing; prepares and fires Redeye missiles; stores ammunition; operates Chaparral unit equipment, including tracked vehicles, power generating equipment, target alert area display set, and fire control devices; assists in equipment maintenance. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; prepares and fires Chaparral missile; leads Redeye team. *Skill Level 30:* Able to perform the duties required for Skill Level 20; leads Chaparral squad; is chief of Redeye section; supervises 12–20 persons engaged in storing, loading, and transporting ammunition; supervises operation and operator maintenance of the equipment.

Recommendation, Skill Levels 10 and 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (2/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations (2/76).

MOS–16R–001

VULCAN CREWMAN

16R10

16R20

16R40

Exhibit Dates: 10/73–8/75.

Career Management Field: 16 (Air Defense Artillery), *subfield* 162 (Air Defense Artillery Gun Operations).

Description

Summary: Supervises or serves as a crewman in a Vulcan system section or serves as a platoon sergeant in a Chaparral or Vulcan platoon. *Skill Level 10:* Under supervision, operates selected basic communications equipment and tracked vehicles. *Skill Level 20:* Able to perform the duties required for Skill Level 10; under supervision, manipulates the weapons system; operates generating equipment and firing devices; performs preventive maintenance on equipment; assists in the emplacement and displacement of the weapons system. *Skill Level 40:* Able to perform the duties required for Skill Level 20; as a first-line supervisor, coordinates the activities of the equipment operators; supervises the personnel engaged in storing, issuing, and transporting ammunition and missiles; supervises the emplacement and displacement of the weapons system; supervises the maintenance of equipment.

Recommendation, Skill Levels 10 and 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision or personnel management, 3 in public speaking, and 6 for field experience in management, for a total of 12 semester hours (2/75).

MOS–16R–002

ADA (AIR DEFENSE ARTILLERY) SHORT RANGE GUNNERY CREWMAN
(SHORT RANGE AIR DEFENSE ARTILLERY CREWMAN)
(AREA AIR DEFENSE ARTILLERY CREWMAN)

16R10

16R20

16R30

16R40

Exhibit Dates: 9/75–Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 161 (Air Defense Artillery Missile and Gun Operations).

Description

Summary: Supervises or serves as a crewman in a Vulcan system section or serves as a platoon sergeant in a Chaparral or Vulcan platoon. *Skill Level 10:* Prepares and assists in firing Vulcan antiaircraft gun; operates and performs operator maintenance on wheeled and tracked vehicles, power generating equipment, communications equipment, and fire control devices; handles ammunition; assists in the emplacement and displacement of the weapons system; assists in performance of routine maintenance. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises equipment operation and operator maintenance; supervises the emplacement and displacement of weapons system; supervises squad training and coordinates squad activities. *Skill Level 40:* Able to perform the duties required for 16R30 or 16P30 (ADA Short Range Missile Crewman or Chapparal Crewman); serves as platoon sergeant in a Chaparral or Vulcan platoon of more than 20 persons; assists superiors in planning, directing, training, coordinating, and reporting the activities of the platoon.

Recommendation, Skill Levels 10 and 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (2/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations (2/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 3 for field experience in management, for a total of 9 semester hours (2/76).

MOS–16Z–001

AIR DEFENSE ARTILLERY (ADA) SENIOR SERGEANT

16Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 16 (Air Defense Artillery), *subfield* 160 (Air Defense Artillery General).

Description

Serves as the principal noncommissioned officer in an air defense artillery unit or headquarters and supervises 44 or more persons; assists superiors in the appraisal of air defense artillery operations, training, and intelligence information; prepares status board and situation map; collects, interprets, evaluates, and disseminates intelligence data; prepares and edits training and intelligence material and the operations manual; supervises security; advises superiors on all personnel matters; coordinates operation of battery food service and supply activities; assists superiors in planning, coordinating, and directing all air defense artillery activities. NOTE: May have progressed to 16Z50 from Skill Level 40 of any MOS in the air defense artillery career management field (16).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in technical writing, 3 in public speaking, 3 in map reading, and additional credit in electronics and mechanical maintenance on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in human relations, 6 for field experience in management, and additional credit in industrial arts education

on the basis of institutional evaluation, for a minimum total of 15 semester hours (2/76).

MOS–17A–001

COMBAT SURVEILLANCE AND TARGET ACQUISITION CREWMAN

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 17A was discontinued and its functions were incorporated into Skill Level 10 of the following MOS's: 17B, Field Artillery Radar Crewman; 17C, Field Artillery Target Acquisition Specialist; 17K, Ground Surveillance Radar Crewman; 17L, Aerial Sensor Specialist (OV–1B/C); and 17M, Unattended Ground Sensor Specialist.)

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 170 (General).

Description

Assists in operation of combat surveillance and target acquisition systems; assists in determining direction and range of artillery rounds; assists in gathering intelligence; operates sound and light equipment; plots data on a map.

Recommendation

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (3/76).

MOS–17B–001

FIELD ARTILLERY RADAR CREWMAN (COUNTERBATTERY/COUNTERMORTAR RADAR CREWMAN)

17B20

17B40

Exhibit Dates: 10/73–8/75.

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 172 (Target Acquisition).

Description

Summary: Supervises or participates in operation of counterbattery, countermortar, and moving target radar and associated equipment to locate firing weapons, locate moving targets, and adjust artillery. *Skill Level 20:* Able to perform the duties required for 17A10 (Combat Surveillance and Target Acquisition Crewman); assists in equipment emplacement and concealment; prepares radar and associated equipment for operation; operates power unit; locates firing weapons and moving targets; performs calculation vectors and position prediction; operates and performs organizational maintenance on radar, basic communication equipment, vehicles, and related equipment; performs traverse to locate radar and establishes directional control; directs radar operations during period of interference or enemy jamming. *Skill Level 40:* Able to perform the duties required for Skill Level 20; selects site for emplacement of radar; employs knowledge of operational capabilities and limitations of all field artillery target acquisition systems; supervises subordinate personnel (20–22 in a section); organizes and conducts on-the-job training; supervises organizational maintenance; maintains equipment and personnel records.

Recommendation, Skill Level 20

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations and 3 for field experience in management, for a minimum total of 6 semester hours; *if the duty assignment was platoon sergeant,* 3 additional semester hours in personnel supervision, for a total of 9 semester hours (3/76).

MOS–17B–002

FIELD ARTILLERY RADAR CREWMAN

17B10

17B20

17B30

17B40

Exhibit Dates: 9/76–Present.

Career Management Field: 13 (Field Artillery), *subfield* 132 (Field Artillery Target Acquisition Operations).

Description

Summary: Engages in operation of counterfire and moving target locating radars and associated equipment. *Skill Level 10:* Emplaces and conceals equipment; operates power unit; operates and performs minor maintenance on radars and associated equipment. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; prepares site evaluation chart and surveillance cards; performs traverse to locate radar and establish directional control; assists in scheduling maintenance on radar and associated equipment; directs radar operations during periods of interference and jamming; employs electronic counter-countermeasures. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises a radar section of approximately 7 persons; selects and evaluates emplacement site; instructs radar operators in radar techniques and procedures; plans and organizes work schedules; assures adherence to safety procedures involving radar operation and maintenance. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises operation of radar platoon of approximately 20 persons; supervises and directs operation of radar sections; assists platoon commander in supervision of platoon operations, training, resupply, and maintenance of platoon equipment; conducts reconnaissance and selection of tactical area for radars; prepares technical, personnel, and administrative reports.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree ctegory, 1 semester hour for field experience in electromechanical maintenance, 1 in basic mathematics, and 1 in map reading, for a total of 3 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 2 in communication skills, 2 in human relations, 2 in personnel supervision, 1 for field experience in electromechanical maintenance, 1 in basic mathematics, and 1 in map reading, for a total of 12 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in communication skills, 3 in human relations, 3 in personnel supervision, 1 for field experience in electromechanical maintenance, 1 in basic mathematics, and 1 in map reading, for a total of 15 semester hours (4/77).

MOS–17C–001

SOUND RANGING CREWMAN

17C20

17C30

17C40

Exhibit Dates: 10/73–8/76.

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 172 (Target Acquisition).

Description

Summary: Supervises or participates in operation of sound ranging equipment in an artillery sound ranging section or platoon. *Skill Level 20:* Able to perform the duties required for 17A10 (Combat Surveillance and Target Acquisition Crewman); operates sound recording equipment; uses formulas and tables to compute data; operates and maintains communication equipment and vehicles. *Skill Lever 30:* Able to perform the duties required for Skill Level 20; performs minor operational maintenance. *Skill Level 40:* Able to perform the duties required for Skill Levels 20 or 30; supervises operation and maintenance of sound ranging section (up to 8 personnel) or platoon (up to 30 personnel).

Recommendation, Skill Levels 20 and 30

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations and 3 for field experience in management, for a total of 6 semester hours; *if the duty assignment was platoon sergeant,* 3 additional semester hours in personnel supervision, for a minimum total of 9 semester hours (3/76).

MOS–17C–002

FIELD ARTILLERY TARGET ACQUISITION SPECIALIST

17C10

17C20

17C30

17C40

Exhibit Dates: 9/76–Present.

Career Management Field: 13 (Field Artillery), *subfield* 132 (Field Artillery Target Acquisition Operations).

Description

Summary: Supervises or participates in operation of sound- and flash-ranging equipment in the location of targets. *Skill Level 10:* Emplaces and operates sound- and flash-ranging equipment; establishes and operates sound/flash observation post; initiates sound-ranging recordings; measures range and horizontal and vertical angles to weapon flashes and projectile bursts; uses mathematics and prepared tables to compute and plot sound/flash data for evaluation; performs preventive maintenance on sound and flash ranging equipment; operates and performs operator maintenance on communications equipment and vehicles. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; orients, operates, and calibrates sound and flash equipment; supervises employment, operation, and preventive maintenance of field illumination equipment by Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises operation of a sound/flash ranging section; controls operation of sound/flash observation posts; supervises computation of sound/flash data and maintenance of equipment; accepts, evaluates, processes, correlates, and reports target information. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises the activities of a sound/flash and field illumination platoon; conducts reconnaissance and selects tactical location for sound, flash, and searchlight equipment; coordinates and insures logistical, personnel, administrative, and training support for all platoon elements (sound, flash, searchlight, and processing sections).

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate de-

gree category, 1 semester hour in basic mathematics, 1 in electromechanical systems, and 1 in map reading, for a total of 3 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 2 in personnel supervision, 2 in human relations, 2 in communication skills, 1 in basic mathematics, 1 in electromechanical systems, and 1 in map reading, for a total of 12 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in personnel supervision, 3 in human relations, 3 in communication skills, 1 in basic mathematics, 1 in electromechanical systems, and 1 in map reading, for a total of 15 semester hours (4/77).

MOS–17D–001

FLASH RANGING CREWMAN

17D20
17D40

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 17D was discontinued and its functions were incorporated into MOS 17C, Field Artillery Target Acquisition Specialist.)

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 172 (Target Acquisition).

Description

Summary: Supervises or participates in flash ranging operations. *Skill Level 20:* Able to perform the duties required for 17A10 (Combat Surveillance and Target Acquisition Crewman); computes firing data; locates observation post and establishes directional controls; orients and calibrates flash ranging instruments; operates observation post; measures range and horizontal and vertical angles; computes and evaluates flash ranging data; operates and performs preventive maintenance on equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as the principal noncommissioned officer in a flash ranging platoon or section; supervises operation and emplacement of flash ranging equipment; supervises 8–12 technical personnel; when the duty assignment is platoon sergeant, supervises up to 30 personnel.

Recommendation, Skill Level 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management and 3 in human relations, for a minimum total of 6 semester hours; *if the duty assignment was platoon sergeant*, 3 additional semester hours in personnel supervision, for a total of 9 semester hours (3/76).

MOS–17E–001

FIELD ILLUMINATION CREWMAN

17E20
17E30
17E40

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 17E was discontinued and its functions were incorporated into MOS 17C, Field Artillery Target Acquisition Specialist.)

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 172 (Target Acquisition).

Description

Summary: Supervises or participates in field illumination and searchlight operations. *Skill Level 20:* Able to perform the duties required for 17A10 (Combat Surveillance and Target Acquisition Crewman); sets up equipment to operate searchlight for field lighting and area findings; operates light direction center; assists in maintenance. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs routine and preventive maintenance of field artillery searchlights and associated electrical equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises operation of field illumination section, platoon, or comparable unit; supervises operation of light direction center; supervises maintenance of equipment and vehicles; when the duty assignment is platoon sergeant, supervises up to 30 persons.

Recommendation, Skill Level 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (3/76).

Recommendation, Skill Level 30

In the vocational certificate category, 1 semester hour in basic electronics (repair) (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30, *only if Skill Level 30 was held prior to Skill Level 40*. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations and 3 for field experience in management, for a minimum total of 6 semester hours; *if the duty assignment was platoon sergeant*, 3 additional semester hours in personnel supervision, for a total of 9 semester hours (3/76).

MOS–17K–001

GROUND SURVEILLANCE RADAR CREWMAN

17K20
17K40

Exhibit Dates: 10/73–8/76.

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 171 (Combat Surveillance).

Description

Summary: Operates radar and associated equipment; prepares maps, overlays, and surveillance records; maintains ground surveillance radar and associated equipment, communication equipment, and vehicles. NOTE: Able to perform the duties required for 17A10 (Combat Surveillance and Target Acquisition Crewman). *Skill Level 20:* Assists in the emplacement and relocation of equipment; operates power units; locates radar and orienting points. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises all activities of ground surveillance radar team, section, or comparable group.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in map reading, and 2 in equipment maintenance, for a total of 8 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in map reading, 2 in equipment maintenance, and 3 in personnel supervision, for a total of 11 semester hours (2/75).

MOS–17K–002

GROUND SURVEILLANCE RADAR CREWMAN

17K10
17K20
17K30
17K40
17K50

Exhibit Dates: 9/76–Present.

Career Management Field: 96 (Military Intelligence), *subfield* 963 (Tactical Intelligence Surveillance).

Description

Summary: Supervises or participates in operation of ground surveillance radar/unattended ground sensor elements engaged in intelligence and information collection activities. *Skill Level 10:* Assists in emplacement and displacement of radars and associated equipment; detects, locates, and reports target data for evaluation; operates and performs preventive maintenance on communications equipment, power generators, light wheeled vehicles, ground surveillance radars, and associated equipment. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; selects radar locations; supervises operation and preventive maintenance of communications equipment, power generators, vehicles, ground surveillance radars, and associated equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as section chief; conducts on-the-job training; selects potential radar emplacement sites using maps, aerial photographs, terrain studies, and intelligence reports; prepares overlays and situation maps and maintains operational records; requests replacement parts. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as platoon sergeant, supervising ground surveillance radar and unattended ground sensor activities; plans and organizes work schedules, assigns duties, instructs section chiefs in proper work techniques and procedures, and recommends operational changes; participates in intelligence surveillance. NOTE: May have progressed to 17K40 from 17K30 or 17M30 (Unattended Ground Sensor Specialist). *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as first sergeant of a company or as the principal noncommissioned officer for ground surveillance at a large headquarters; assists in planning and coordinating employment of ground surveillance systems; assists in preparation and implementation of reconnaissance and surveillance operations plans; recommends procedures for emplacement of ground reconnaissance and surveillance assets.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in basic mathematics, 1 in map reading, and 1 for field experience in electromechanical maintenance, for a total of 3 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 2 in personnel supervision, 2 in human relations, 2 in communication skills, 1 in basic mathematics, 1 in map reading, and 1 for field experience in electromechanical maintenance, for a total of 12 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in personnel supervision, 3 in human relations, 3 in communication skills, 1 in basic mathematics, 1 in map reading, and 1 for field experience in electromechanical maintenance, for a total of 15 semester hours (4/77).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in human relations, and 3 for field experience in management, for a total of 12 semester hours (4/77).

MOS–17L–001

AIRBORNE SENSOR SPECIALIST

17L20

17L40

Exhibit Dates: 10/73–8/76.

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 171 (Combat Surveillance).

Description

Summary: Supervises or participates in airborne sensor operations in an aerial surveillance section or platoon. *Skill Level 20:* Able to perform the duties required for 17A10 (Combat Surveillance and Target Acquisition Crewman); performs preflight checkout of airborne sensor equipment; performs inflight operation of airborne sensor equipment; assists aviator in using navigational aids in aircraft; performs limited imagery interpretation during mission; inspects operation of sensor equipment and readings of indicators; replaces malfunctioning unit or component with serviceable items; operates aircraft communications equipment as directed. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises preflight checkout of sensor equipment; supervises mounting and removal of sensor equipment in aircraft; supervises routine maintenance of sensor equipment, maintenance of records, and supervision of personnel; provides on-the-job training.

Recommendation, Skill Level 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations and 3 for field experience in management, for a minimum total of 6 semester hours; *if the duty assignment was platoon sergeant,* 3 additional semester hours in personnel supervision, for a total of 9 semester hours (3/76).

MOS–17L–002

AERIAL SENSOR SPECIALIST (OV-1B/C)

17L10

17L20

17L30

17L40

Exhibit Dates: 9/76–Present.

Career Management Field: 96 (Military Intelligence), *subfield* 963 (Tactical Intelligence Surveillance).

Description

Summary: Supervises or participates in aerial surveillance operations using ground data terminal systems to provide information and imagery of intelligence value. *Skill Level 10:* Performs aerial surveillance, including visual reconnaissance, search and rescue, radiological survey, and similar intelligence activities; operates aerial infrared, radar, photographic, or similar sensor systems including associated data transmission links and ground data terminal stations; performs radio communications and aids aviator in aerial navigation; performs applicable electronic counter-countermeasures; assists in image interpretation; performs operator maintenance on sensors and associated equipment. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; assists aviator in weather analysis, navigation computations, and aircraft preflight inspection procedures; operates or supervises the operation of aerial surveillance and associated equipment; troubleshoots sensor systems; records operation and maintenance data in equipment logs; utilizes interpretation keys in assisting image interpreter. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises operations and activities of a section; supervises inspections and operator maintenance of sensors and associated equipment; directs and conducts on-the-job training; assists in planning use of aerial surveillance systems; assists image interpreter in analysis and interpretation of imagery; conducts or participates in briefing headquarters staff on capabilities and limitations of aerial surveillance missions, and on the results obtained. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises aerial surveillance platoon operations; plans and organizes work schedules, assigns duties, and instructs section leaders in proper work techniques and procedures; critiques mission results; participates in planning the use of aerial surveillance systems and advises commander on coordination of aerial and ground surveillance; coordinates personnel, equipment, operational supply, and maintenance support requirements.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in general mathematics, 1 in still-camera techniques, and 1 in electric circuits, for a total of 5 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in general mathematics, 3 in outdoor survival skills, 1 in still-camera techniques, 1 in electric circuits, and 1 in maps and air photos, for a total of 9 semester hours. In the upper-division baccalaureate category, 1 semester hour in remote sensing (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in general mathematics, 3 in outdoor survival skills, 3 for field experience in management, 2 in maps and air photos, 2 in human relations, 2 in communication skills, 2 in personnel supervision, 1 in still-camera techniques, and 1 in electric circuits, for a total of 19 semester hours. In the upper-division baccalaureate category, 1 semester hour in remote sensing (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in general mathematics, 3 in outdoor survival skills, 3 for field experience in management, 3 in human relations, 3 in communication skills, 3 in personnel supervision, 2 in maps and air photos, 1 in still-camera techniques, and 1 in electric circuits, for a total of 22 semester hours. In the upper-division baccalaureate category, 1 semester hour in remote sensing (4/77).

MOS–17M–001

UNATTENDED GROUND SENSOR SPECIALIST

17M20

17M30

17M40

Exhibit Dates: 10/74–8/76.

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 171 (Combat Surveillance).

Description

Summary: Commands or serves as a member of an unattended ground sensor team, section, or platoon engaged in emplacing and operating sensors and sensor monitoring equipment. *Skill Level 20:* Able to perform the duties required for 17A10 (Combat Surveillance and Target Acquisition Crewman); reads air photographs and contour maps to plan sensor and relay location; assists in sensor emplacement; emplaces and activates relay stations; emplaces, monitors, and recovers sensor devices; reads and interprets monitoring, recording, and display devices and reports information gathered; computes density, direction, rate of movement, and nature of targets detected. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assembles, tests, and maintains ground sensor devices; inspects, assembles, tests, and maintains portable monitoring equipment, sensor relay and automated readout equipment; performs operational maintenance on equipment. *Skill Level 40:* Able to perform the duties of Skill Level 20 or 30; scouts potential areas, selects sensor emplacement sites, and supervises emplacement; determines employment and operational techniques; supervises maintenance; supervises unit personnel; maintains records; conducts on-the-job training.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1 semester hour in aerial map interpretation (3/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in basic electronics troubleshooting. In the lower-division baccalaureate/associate degree category, 1 semester hour in aerial photographic map reading (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electronics troubleshooting, *only if Skill Level 30 was held prior to Skill Level 40.* In the lower-division baccalaureate/associate degree category, 1 semester hour in aerial photographic map reading, 3 in human relations, and 3 for field experience in management, for a minimum total of 7 semester hours; *if the duty assignment was platoon sergeant,* 3 additional semester hours in personnel supervision, for a total of 10 semester hours (3/76).

MOS–17M–002

UNATTENDED GROUND SENSOR SPECIALIST

17M10

17M20

17M30

Exhibit Dates: 9/76–Present. Pending evaluation.

MOS–17Z–001

COMBAT SURVEILLANCE AND TARGET ACQUISITION NCO

17Z50

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 17Z was discontinued and its functions were incorporated into the following MOS's: 13W, Field Artillery Target Acquisition Senior Sergeant; 13Z, Field Artillery Senior Sergeant; 17C, Field Artillery Target Acquisition Specialist; 17K, Ground Surveillance Radar Crewman; and 96Z, Intelligence Senior Sergeant.)

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 170 (General).

Description

Supervises operations or intelligence activities in target acquisition platoon, battery, battalion, or staff section at corps level artillery or serves as the principal noncommissioned officer in a combat surveillance target acquisition or searchlight battery; able to perform the duties

required for Skill Level 40 of any MOS in career management field 17; provides liaison between combat surveillance or target acquisition elements and firing elements; supervises operation of command post; establishes unit defense; prepares operations and intelligence plans and reports; coordinates intelligence collection activities; as first sergeant of a battery, directs and coordinates battery administration, assists battery commander in unit training, and supervises up to 200 personnel; periodically serves as chief instructor in a training facility; prepares personnel reports and records; conducts on-the-job training.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, credit in electronics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in human relations, 3 in personnel management, and 6 for field experience in management, and additional credit in industrial arts education on the basis of institutional evaluation, for a minimum total of 15 semester hours; *if the duty assignment was chief instructor in a formal training facility,* 3 additional semester hours for an internship in education, for a minimum total of 18 semester hours (3/76).

MOS–21G–001

PERSHING ELECTRONICS MATERIEL SPECIALIST

21G20
21G40

Exhibit Dates: 10/73–8/77.

Career Management Field: 21 (Ballistic Missile Repair), *subfield* 211, Pershing Missile Repair.

Description

Summary: Supervises or performs inspection, checkout, and troubleshooting of electronic equipment associated with the Pershing missile system. *Skill Level 20:* Inspects, tests, adjusts, and troubleshoots the Pershing programmer test station, missile, missile trainer, erector launcher, power station, and assoicated equipment; pulls module unit or circuit board for others to repair; uses multimeter, frequency meter, and to a limited extent, other electronic meters; employs a working knowledge of electronics. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises five or more Skill Level 20 personnel; supervises the preparation of technical forms and reports; coordinates activities with other maintenance units; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; supervises the requisitioning and storing of supplies and repair parts.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electronics. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC-DC theory and 1 in introduction to digital electronics. In an electronics technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction on the basis of employer or trade association performance examination (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electronics. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC-DC theory, 1 in introduction to digital electronics, 3 in human relations, and 3 for field experience in management, for a total of 10 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are supervisory and administrative in nature (3/76).

MOS–21G–002

PERSHING ELECTRONICS MATERIEL SPECIALIST

21G10
21G20
21G30

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–21L–001

PERSHING ELECTRONICS REPAIRMAN

21L20
21L40
21L50

Exhibit Dates: 10/73–8/77.

Career Management Field: 21 (Ballistic Missile Repair), *subfield* 211 (Pershing Missile Repair).

Description

Summary: Supervises or performs maintenance and repair of all electronic systems and components of the Pershing missile system, using a theoretical and working knowledge of electronic, digital, and logic circuits. *Skill Level 20:* Performs maintenance on the programmer test station, training set, and associated equipment, and on system test equipment; reads electronic schematics; uses a wide range of electronic meters, including scope, to inspect, test, and adjust components; determines the causes of malfunctions in electronic, electrical, electromechanical, and pneumatic assemblies, subassemblies, modules, and circuit elements, and makes necessary repairs or replaces defective components; has a background in electronic theory and is familiar with digital and logic circuits; performs quality control measures; installs modifications on electronic equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes repair priorities; supervises 6 or more persons in an electronic repair station; conducts on-the-job training; implements quality control measures; establishes and keeps maintenance records; determines faulty work practices and demonstrates proper maintenance techniques. *Skill Level 50:* Able to perform the duties of Skill Level 40; as the principal noncommissioned officer in a missile maintenance unit, supervises 30 or more persons; assists superiors in establishing policies and procedures; directs and coordinates the administration of a unit or facility; directs on-the-job training; may serve as a chief instructor in a formal training facility; holds meetings with subordinate noncommissioned officers to provide guidance and direction. NOTE: May have progressed to 21L50 from 21L40, 21G40 (Pershing Electronics Materiel Specialist), or 46N40 (Pershing Electrical-Mechanical Repairman).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 2 in digital electronics, and 2 in technical mathematics, and additional credit in electronic instruments on the basis of institutional evaluation, for a minimum total of 7 semester hours. In an electronic technician apprentice training parogram, 4,000 clock hours of experience and 238 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC-DC theory, 2 in digital electronics, 2 in technical mathematics, 3 in human relations, 3 for field experience in management, and additional credit in electronic instruments on the basis of institutional evaluation, for a minimum total of 13 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (3/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in human relations, 3 in personnel management, 6 for field experience in management, and 3 in industrial arts education (electronics), for a minimum total of 18 semester hours; *if the duty assignment was chief instructor in a formal training facility,* 3 additional semester hours for an internship in education, for a total of 21 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (3/76).

MOS–21L–002

PERSHING ELECTRONICS REPAIRER

21L10
21L20
21L30
21L40
21L50

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–21R–001

SERGEANT FIRING SET REPAIRMAN

21R20
21R40

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 21R was discontinued.)

Career Management Field: 21 (Ballistic Missile Repair), *subfield* 212 (Sergeant Missile Repair).

Description

Summary: Supervises or performs support maintenance on the Sergeant missile system firing set. *Skill Level 20:* Performs functional tests on the firing set in conjunction with the missile or training missile to assure proper countdown operation; performs systems analysis with portable test equipment and built-in self-test circuits to locate and isolate malfunctioning electrical circuits and electronic assemblies; removes and replaces defective assemblies and adjusts equipment to insure performance within specified tolerances; performs initial and final checkout and serviceability inspections; determines disposition of defective assemblies; performs quality control measures; performs minor calibration; provides technical assistance; serves on inspection teams; perpares maintenance and supply forms. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes work loads and repair priorities; recommends procedures for receipt, storage, inspection, testing, and repair of items; implements quality control measures; supervises inspection and maintenance teams; organizes and conducts on-the-job training programs; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in basic electricity laboratory and 2 in systems maintenance (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 se-

mester hours in basic electricity laboratory and 2 in systems maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 for field experience in management (6/76).

MOS–21S–001

SERGEANT MISSILE GUIDANCE REPAIRMAN

21S20

21S40

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 21S was discontinued.)

Career Management Field: 21 (Ballistic Missile Repair), *subfield* 212 (Sergeant Missile Repair).

Description

Summary: Supervises or performs support maintenance on the Sergeant missile guidance system. *Skill Level 20:* Operates test stations and appropriate supplemental shop sets to isolate malfunctions to the assembly level in missile guidance and control systems and training missiles; may isolate malfunctions to the subassembly level when required; removes and replaces defective assemblies; performs initial and final checkout and inspection; makes authorized adjustments on equipment; determines disposition of defective assemblies; performs quality control measures; performs simple calibrations; provides technical assistance; serves on inspection teams; prepares applicable maintenance and supply forms. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes work loads and repair priorities; recommends procedures for receipt, storage, inspection, testing, and repair of items; implements quality control measures; supervises inspection and maintenance teams; organizes and conducts on-the-job training programs; determines faulty work practices and demonstrates maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in basic electricity laboratory and 2 in systems maintenance (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in basic electricity laboratory and 2 in systems maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 for field experience in management (6/75).

MOS–21T–001

SERGEANT TEST EQUIPMENT REPAIRMAN

21T20

21T40

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 21T was discontinued.)

Career Management Field: 21 (Ballistic Missile Repair), *subfield* 212 (Sergeant Missile Repair).

Description

Summary: Supervises or performs support maintenance on Sergeant missile system test equipment. *Skill Level 20:* Operates and performs support maintenance on special test sets used on the Sergeant missile system; isolates subassembly malfunctions; repairs or removes and replaces defective components and parts; performs initial and final checkout and inspection of equipment; determines serviceability and disposition of defective assemblies, subassemblies, and components; performs quality control measures; performs maintenance and calibration on maintenance test equipment; serves on inspection teams; prepares maintenance and supply forms and reports. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises support maintenance on Sergeant missile system test equipment; establishes work loads and repair priorities; recommends procedures for receipt, storage, inspection, testing, and repair of items; implements quality control measures; supervises inspection and maintenance teams; organizes and conducts on-the-job training programs; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in basic electricity laboratory and 2 in systems maintenance (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in basic electricity laboratory and 2 in systems maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 for field experience in management (6/76).

MOS–21U–001

SERGEANT MAINTENANCE CHIEF

21U50

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 21U was discontinued.)

Career Management Field: 21 (Ballistic Missile Repair), *subfield* 212 (Sergeant Missile Repair).

Description

Supervises support maintenance of the Sergeant missile system; able to perform the duties required for 21R40 (Sergeant Firing Set Repairman); 21S40 (Sergeant Missile Guidance Repairman), 21T40 (Sergeant Test Equipment Repairman), or 46L40 (Sergeant Electrical-Mechanical Repairman); supervises and coordinates support maintenance of the Sergeant missile, launching station and firing set, azimuth orientation unit, training missile, special test stations, supplemental shop sets, and other system-associated equipment; may supervise up to 120 persons; supervises and assists in the development of quality assurance/quality control programs; may serve as an administrator; advises superiors on all enlisted personnel matters; may serve as a chief instructor in a formal training facility.

Recommendation

In the vocational certificate category, 2 semester hours in hydraulic laboratory, 2 in basic electricity laboratory, and 2 in systems maintenance, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in office management, 1 in public speaking, 3 in personnel supervision, and 6 for field experience in management, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management; and *if the duty assignment was chief instructor*, 3 semester hours for an internship in education (6/76).

MOS–22K–001

HAWK MISSILE-LAUNCHER REPAIRMAN

22K20

22K40

Exhibit Dates: 10/73–1/76.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 233 (Hawk Missile System Repair).

Description

Summary: Performs inspection, maintenance, and repair on specialized missile and support equipment. *Skill Level 20:* Performs routine maintenance on missile and launching devices; inspects, tests, and adjusts equipment components to specified tolerances; identifies and repairs malfunctions in fluidic, electrical, electronic, and mechanical systems, using a wide variety of test equipment, including multimeters, bridges, oscilloscopes, signal generators, and pulse counters; performs calibration and repair for all test equipment; keeps applicable maintenance and supply forms and records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a first-line supervisor with responsibility for on-the-job training; establishes workloads and repair priorities; implements quality control measures; conducts technical inspections; keeps maintenance records.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics and 3 in basic mathematics (including trigonometry). In an electronic technician apprentice training program, 1,000 clock hours of experience and 200 contact hours of related instruction (3/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics and 3 in basic mathematics (including trigonometry), and additional credit in personnel supervision and for field experience in education on the basis of institutional evaluation for a minimum total of 6 semester hours. In an electronic technician apprentice training program, 1,200 clock hours of experience and 250 contact hours of related instruction (3/75).

MOS–22K–002

HAWK MISSILE-LAUNCHER REPAIRMAN

22K20

22K40

Exhibit Dates: 2/76–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 233 (Hawk Missile System Repair).

Description

Summary: Supervises or performs maintenance on the Hawk missile system, launcher, and associated equipment. *Skill Level 20:* Uses common and system special-design test equipment to inspect, test, and adjust missile and launcher-control components to specific tolerances and to troubleshoot malfunctions (to component level) in electronic, electrical, mechanical, hydraulic, and electromechanical assemblies, subassemblies, modules, and circuit elements; installs equipment modifications; performs quality control measures, minor calibrations, and initial and final checkouts and inspections; determines the serviceability and disposition of defective assemblies, subassemblies, and parts. *Skill Level 40:* Able to perform the duties required for Skill Level 20; provides first-line technical supervision for Hawk missile-launcher repairmen; coordinates repair activities; organizes and supervises maintenance and inspection teams; prepares technical reports and forms; plans and conducts on-the-job training; keeps maintenance records; implements quality control measures; recommends procedures for receiving, storing, testing, and repairing equipment.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electronics, 3 in technical mathematics, 2 in shop practices, and 1 in control systems, and additional credit in electronics, hydraulics, and mechanics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 2 in DC circuit analysis, 2 in AC circuit analysis, 2 in technical mathematics, 1 in transistor/tube theory, 1 in electronic instruments, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 11 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education. In an electronic technician apprentice training pro-

gram, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in human relations, 3 in personnel supervision, 2 in DC circuit analysis, 2 in AC circuit analysis, 2 in technical mathematics, 1 in transistor/tube theory, and 1 in electronic instruments, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 17 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–22L–001

NIKE TEST EQUIPMENT REPAIRMAN

22L20

22L40

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 231 (Nike Missile System Repair).

Description

Summary: Supervises or performs maintenance on Nike special purpose test equipment. *Skill Level 20:* Inspects, tests, and adjusts system-item chassis and test equipment to specific tolerances; troubleshoots and repairs deficiencies in electronic assemblies and subassemblies (to component level); determines serviceability and disposition of defective assemblies, subassemblies, and parts; performs initial and final checkouts and inspections; performs quality control measures; performs minor calibrations; installs modifications. *Skill Level 40:* Able to perform the duties required for Skill Level 20; provides first-line technical supervision of Nike test equipment repairmen; establishes workloads and repair priorities; prepares technical forms and reports; organizes and supervises inspection and maintenance teams; plans and conducts on-the-job training programs; supervises requisitioning and storing of repair parts and supplies.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in technical mathematics, 2 in control systems, 1 in systems maintenance, 1 in communication systems (electronics), 1 in shop practices, and 1 in alignment techniques (video), for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in radar/microwave theory, 2 in DC circuit analysis, 2 in AC circuit analysis, 1 in electronic instruments, 1 in digital computer fundamentals, and 1 in transistor/tube theory, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 in industrial arts education (electronics) and additional credit in electron device theory, radar/microwave, digital computers, and circuit analysis on the basis of institutional evaluation. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in radar/microwave theory, 3 in human relations, 3 in personnel supervision, 2 in DC circuit analysis, 2 in AC circuit analysis, 1 in electronic instruments, 1 in digital computer fundamentals, and 1 in transistor/tube theory, for a total of 19 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics), 3 for field experience in management, and additional credit in electron device theory, radar/microwave, digital computers, and circuit analysis on the basis of institutional evaluation, for a minimum total of 6 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–22N–001

NIKE-HERCULES MISSILE-LAUNCHER REPAIRMAN

22N20

22N40

Exhibit Dates: 10/74–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 231 (Nike Missile System Repair).

Description

Summary: Supervises or performs maintenance on the Nike-Hercules missile system, launcher, and associated equipment. *Skill Level 20:* Uses common and system special-design test equipment to inspect, test, and adjust missile and launcher-control components to specific tolerances and to troubleshoot malfunctions (to component level) in electronic, electrical, mechanical, electromechanical, hydropneumatic assemblies, subassemblies, modules, and circuits; installs equipment modifications; performs quality control measures, minor calibrations, and initial and final checkouts and inspections; determines the serviceability and disposition of defective assemblies, subassemblies, and parts. *Skill Level 40:* Able to perform the duties required for Skill Level 20; Provides first-line technical supervision for Nike-Hercules missile-launcher repairmen; coordinates repair activities; organizes and supervises inspection and maintenance teams; prepares technical reports and forms; plans and conducts on-the-job training; keeps maintenance records; implements quality control measures; recommends procedures for receiving, storing, testing, and repairing equipment.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in technical mathematics, 2 in control systems, 1 in systems maintenance, 1 in communication systems (electronics), 1 in shop practices, and 1 in alignment techniques (video) for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in radar/microwave theory, 2 in DC circuit analysis, 2 in AC circuit analysis, 1 in electronic instruments, 1 in digital computer fundamentals, and 1 in transistor/tube theory, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 in industrial arts education (electronics) and additional credit in electron device theory, radar/microwave, digital computers, and circuit analysis on the basis of institutional evaluation. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in radar/microwave theory, 3 in human relations, 3 in personnel supervision, 2 in DC circuit analysis, 2 in AC circuit analysis, 1 in electronic instruments, 1 in digital computer fundamentals, and 1 in transistor/tube theory, for a total of 19 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics), 3 for field experience in management, and additional credit in electron device theory, radar/microwave, digital computers, and circuit analysis on the basis of institutional evaluation, for a minimum total of 6 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–23N–001

NIKE TRACK RADAR REPAIRMAN

23N20

23N40

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 231 (Nike Missile System Repair).

Description

Summary: Maintains low-power acquisition radar, target and missile tracking radar, target ranging radar, as well as on-site systems, including analog computer, test sets, antenna mast group, operator console, and associated test equipment. *Skill Level 20:* Inspects, tests, and adjusts components to specific tolerances; determines malfunctions in electronic, mechanical, electrical, and electromechanical systems with common and special-designed system test equipment; repairs assemblies and modules; performs initial and final inspection on systems and assemblies; performs calibration and repair on job-related equipment; installs modifications on system items; serves on inspection teams. *Skill Level 40:* Able to perform the duties required for Skill Level 20; provides first-line technical supervision; trains personnel; supervises the preparation of technical forms and reports; coordinates unit activities; demonstrates proper maintenance and troubleshooting techniques; establishes workloads and repair priorities; conducts technical inspections.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in technical mathematics, 2 in control systems, 1 in systems maintenance, 1 in communication systems (electronics), 1 in shop practices, and 1 in alignment techniques (video), for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in radar/microwave theory, 2 in DC circuit analysis, 2 in AC circuit analysis, 1 in electronic instruments, 1 in digital computer fundamentals, and 1 in transistor/tube theory, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 in industrial arts education (electronics) and additional credit in electron device theory, radar/microwave, digital computers, and circuit analysis on the basis of institutional evaluation. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in radar/microwave theory, 3 in human relations, 3 in personnel supervision, 2 in DC circuit analysis, 2 in AC circuit analysis, 1 in electronic instruments, 1 in digital computer fundamentals, and 1 in transistor/tube theory, for a total of 19 semester

hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics), 3 for field experience in management, and additional credit in electron device theory, radar/microwave, digital computers, and circuit analysis on the basis of institutional evaluation, for a minimum total of 6 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–23Q–001

HAWK FIRE CONTROL REPAIRMAN

23Q20

23Q40

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 233 (Hawk Missile System Repair).

Description

Summary: Supervises or performs maintenance on the Hawk missile fire control system equipment. *Skill Level 20:* Tests, evaluates, and repairs electronics modules, circuit elements, and compete assemblies for radar and communications; uses test equipment such as oscilloscopes, voltmeters, ohmmeters, and spectrum analyzers; installs equipment modifications; analyzes malfunctions; assists radar equipment operators in maintaining equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises support level maintenance on the Hawk fire control system equipment; establishes workloads and repair priorities; implements quality control measures; organizes and supervises inspection and maintenance teams; conducts on-the-job training; keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in basic electronics and 3 semester hours in advanced electronics, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics (including right angle trigonometry), 3 in transistor/tubes/amplifiers/oscillators, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in AC/DC concepts and 3 in industrial arts education (electronics). In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics (including right angle trigonometry), 3 in DC circuits, 3 in AC circuits, 3 in transistor/tubes/amplifiers/oscillators, 3 in human relations, and 3 in personnel supervision, and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in AC/DC concepts and 3 in industrial arts education (electronics). In an electronic technician apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS–23S–001

HAWK PULSE RADAR REPAIRMAN

23S20

23S40

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 233 (Hawk Missile System Repair).

Description

Summary: Supervises or performs maintenance on the Hawk pulse acquisition radar and associated equipment. *Skill Level 20:* Inspects, tests, and adjusts components to specific tolerances; determines deficiencies in electronic, electrical, mechanical, electromechanical, and heat transfer assemblies, subassemblies, modules, and circuit elements, using common and system special-design test equipment; troubleshoots to the component level; installs equipment modifications; performs initial and final checkouts and inspections. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises support-level maintenance on the Hawk pulse radar and related equipment; establishes workloads and repair priorities; implements quality control measures; organizes and supervises maintenance and inspection teams; conducts on-the-job training; demonstrates proper repair techniques; keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in DC circuits, 3 in AC circuits, and 3 in transistors/tubes, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics (including trigonometric functions), 3 in DC circuits, 3 in AC circuits, and 3 in transistors/tubes, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in AC/DC concepts and 3 in industrial arts education (electronics). In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics (including trigonometric functions), 3 in DC circuits, 3 in AC circuits, 3 in transistors/tubes, 3 in human relations, 3 in personnel supervision and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in AC/DC concepts and 3 in industrial arts education (electronics). In an electronic technician apprentice training program, 3,000 clock hours of experience and 216 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS–23T–001

HAWK CONTINUOUS WAVE RADAR REPAIRMAN

23T20

23T40

Exhibit Dates: 10/73–1/76.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 233 (Hawk Missile System Repair).

Description

Summary: Performs inspection, maintenance, and repair on a specialized continuous wave acquisition radar and associated equipment. *Skill Level 20:* Inspects, tests, adjusts, troubleshoots, and repairs items associated with this specific continuous wave radar system; provides technical assistance to operators; uses a wide range of test equipment including multimeters, bridges, oscilloscopes, signal generators, and pulse counters. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a first-line supervisor responsible for on-the-job training; establishes workloads and maintenance priorities; implements quality control measures; keeps maintenance records.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics and 3 in basic mathematics (including trigonometry). In an electronic technician apprentice training program, 1,000 clock hours of experience and 200 contact hours of related instruction (3/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity and electronics and 3 in basic mathematics (including trigonometry), and additional credit in personnel supervision and for field experience in education on the basis of institutional evaluation, for a minimum total of 6 semester hours. In an electronic technician apprentice training program, 1,200 clock hours of experience and 250 contact hours of related instruction (3/75).

MOS–23T–002

HAWK CONTINUOUS WAVE RADAR REPAIRMAN

23T20

23T40

Exhibit Dates: 2/76–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 233 (Hawk Missile System Repair).

Description

Summary: Performs maintenance on Hawk continuous wave radars and associated equipment. *Skill Level 20:* Performs maintenance on the Hawk continuous wave radar, continuous wave illuminator radar (high powered illuminator—HPI), including HPI built-in test equipment and other system-designed test equipment; inspects, tests, and adjusts components to specific tolerances; determines shortcomings and malfunctions in electronic, electrical, electromechanical, and heat transfer assemblies, subassemblies, modules, and circuit elements, using common and system special-design test equipment; determines serviceability and disposition of defective assemblies, subassemblies, and parts; performs "C" level calibration and repair on test equipment; installs equipment modifications; performs initial and final checkouts and inspections; provides technical assistance to other units. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance on Hawk continuous wave radar and associated equipment; establishes repair priorities and workloads; implements quality control measures; supervises inspection and maintenance teams; conducts on-the-job training programs; demonstrates proper repair techniques and procedures; keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in AC and DC circuits and use of test equipment, and 3 in radar, and additional credit in mechanics and electronics on the basis of institutional evaluation, for a minimum total of 15 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours

of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in AC and DC circuits and use of test equipment, 3 in radar, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, and additional credit in mechanics and electronics on the basis of institutional evaluation, for a minimum total of 24 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–23U–001

NIKE HIGH POWER RADAR-SIMULATOR REPAIRMAN

23U20

23U40

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 231 (Nike Missile System Repair).

Description

Summary: Supervises or performs maintenance on Nike high-power acquisition radar, radar target simulator, and associated equipment. *Skill Level 20:* Uses common and special-design test equipment to inspect, test, and adjust components to specific tolerances and to determine malfunctions in electronic, electrical, mechanical, hydraulic, pneumatic, and heat transfer assemblies, modules, and circuit elements; determines serviceability and disposition of defective assemblies, subassemblies, and parts; performs initial and final checkouts and inspections; performs quality control measures; installs equipment modifications. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes workloads and repair priorities; recommends procedures for receiving, storing, testing, and repairing equipment; implements quality control measures; organizes and supervises inspection and maintenance teams; conducts on-the-job training; demonstrates proper repair techniques; keeps maintenance records; is a first-line technical supervisor.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in AC and DC theory and 3 in vacuum tube and transistor theory. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) and additional credit in electron device theory and/or AC and DC circuit theory on the basis of institutional evaluation. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in AC and DC theory, 3 in vacuum tube and transistor theory, and 3 in technical mathematics, for a total of 12 semester hours. In the lower-division baccalaureate/associated degree category, 6 semester hours in AC and DC theory, 3 in vacuum tube and transistor theory, 3 in human relations, and 3 in personnel supervision, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics), 3 for field experience in management, and additional credit in electron device theory and/or AC and DC circuit theory on the basis of institutional evaluation, for a minimum total of 6 semester hours. In an electronic technician apprentice training program, 3,000 clock hours of experience and 216 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS–23V–001

HAWK MAINTENANCE CHIEF

23V50

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 233 (Hawk Missile System Repair).

Description

Summary: Supervises the maintenance of the Hawk missile system; assists in the development of the quality assurance/quality control program and supervises its implementation; interprets policy; recommends changes in policy and procedures; advises superiors; plans all work activities and operations; directs on-the-job training. NOTE: May have progressed to 23V50 from 22K40 (Hawk Missile-Launcher Repairman), 23Q40 (Hawk Fire Control Repairman), 23S40 (Hawk Pulse Radar Repairman), 23T40 (Hawk Continuous Wave Radar Repairman), 24B40 (Hawk Continuous Wave Radar Mechanic), 24D40 (Hawk Missile-Launcher Mechanic), or 24F40 (Hawk Fire Control Mechanic).

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in human relations, 3 in maintenance management, 6 for field experience in management, and 3 in industrial arts education (electronics), for a minimum total of 18 semester hours; *if the duty assignment was maintenance chief*, 3 additional semester hours in personnel management, for a total of 21 semester hours; *if the duty assignment was chief instructor in a training facility*, 3 additional semester hours for an internship in education, for a total of 21 semester hours. In an electronic technician apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS–23W–001

NIKE MAINTENANCE CHIEF

23W50

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 231 (Nike Missile System Repair).

Description

Summary: Supervises the maintenance of the Nike-Hercules missile system; assists in the development of the quality assurance/quality control program and supervises its implementation; interprets policy; recommends changes in policy and procedures; advises superiors; plans all work activities and operations; directs on-the-job training. NOTE: May have progressed to 23W50 from 28M50 (Anti-Ballistic Missile Maintenance Specialist), 22L40 (Nike Test Equipment Repairman), 22N40 (Nike-Hercules Missile-Launcher Repairman), 23N40 (Nike Track Radar Repairman), 23U40 (Nike High Power Radar-Simulator Repairman), 24Q40 (Nike-Hercules Fire Control Mechanic), 24U40 (Hercules Electronics Mechanic), or 26H30 (Air Defense Radar Repairman).

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in human relations, 3 in maintenance management, 6 for field experience in management, and 3 in industrial arts education (electronics), for a minimum total of 18 semester hours; *if the duty assignment was maintenance chief*, 3 additional semester hours in personnel management, for a total of 21 semester hours; *if the duty assignment was chief instructor in a training facility*, 3 additional semester hours for an internship in education, for a total of 21 semester hours. In an electronic technician apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS–24B–001

HAWK CONTINUOUS WAVE RADAR MECHANIC

24B20

24B40

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 234 (Hawk Missile System Mechanics).

Description

Summary: Maintains and repairs Hawk continuous wave acquisition radar, continuous wave illuminator radar, high power illuminator radar, along with associated consoles, power, and test equipment. *Skill Level 20:* Performs electrical checks and adjustments on equipment; locates and corrects malfunctions; provides technical assistance in orientation, alignment, or synchronization of subassemblies and systems; performs authorized equipment modifications; completes required forms for equipment and repair parts; provides technical assistance in the conduct of operational and maintenance inspections; prepares technical reports on system equipment; provides technical assistance for setting up, taking down, and moving equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a first-line supervisor; provides technical supervision in training programs; coordinates work activities of radar section; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; organizes and supervises maintenance and inspection teams; supervises the requisitioning and storing of supplies and repair parts.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity, 2 in electron devices, 3 in basic electronics, 3 in electronic instruments, and 3 in technical mathematics, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 3 in technical mathematics, 2 in pulse circuits, 2 in radar/microwave, and 1 in antennas, for a total of 11 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics), and additional credit in AC/DC circuits and electron devices on the basis of institutional evaluation. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 3 in technical mathematics, 3 in human relations, 3 in personnel supervision, 2 in pulse circuits, 2 in radar/microwave, and 1 in antennas, for a total of 17 semester hours. In the upper-division baccalaureate category, the recommendation is the same as that for Skill

Level 20. In an electronic technician apprentice training program, 3,000 clock hours of experience and 216 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS–24C–001

IMPROVED HAWK FIRING SECTION MECHANIC

24C20

24C40

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 235 (Improved Hawk Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on Improved Hawk firing section equipment. *Skill Level 20:* Performs maintenance on Improved Hawk high-powered illuminator radar, missile launching section control box, and electrical, mechanical, and hydraulic systems of the launcher and loader-transporter; inspects, tests, and adjusts to specific operational levels; determines malfunctions and repairs by replacing subassembly units; assists in orientation, alignment, and synchronization of subassemblies and systems; assembles external hardware of the missile and makes prescribed tests to determine operational condition; supervises missile crewmen in transferring, handling, arming, and disarming missiles; initiates requests for repair parts, test equipment, tools, and supplies. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a first-line technical supervisor; establishes workloads and repair priorities; coordinates work activities with other units; demonstrates proper maintenance and troubleshooting techniques; supervises the preparation of technical reports and forms; organizes and supervises maintenance and inspection teams.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electronics and 3 in basic electricity, and additional credit in electronics, technical mathematics, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 1 in radar/microwave, and additional credit in electronics, algebra, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 4 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics). In an electronic technician apprentice training program, 1,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, advanced standing on the basis of employer or trade association performance examination (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in human relations, 3 in personnel supervision, and 1 in radar/microwave, and additional credit in electronics, algebra, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 10 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics). The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–24D–001

HAWK MISSILE-LAUNCHER MECHANIC

24D20

24D40

Exhibit Dates: 10/73–1/76.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 234 (Hawk Missile System Mechanics).

Description

Summary: Performs inspections and maintenance on specialized missile equipment. *Skill Level 20:* Inspects, tests, and adjusts equipment and components to specified tolerances; identifies malfunctions in fluidic, electrical, and mechanical systems, using multimeter and test equipment designed specifically for the missile system; repairs fluidic and mechanical components using basic block diagrams and substitutes electrical and electronic components; performs a limited amount of calibration for special test sets. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a foreman and technical inspector, supervising four to six persons; establishes workloads and repair priorities; implements quality control measures; conducts on-the-job training; supervises the preparation of technical forms and reports and the requisitioning and stockage of supplies and repair parts.

Recommendation, Skill Levels 20 and 40

No recommendation because of the limited and military nature of the skills, competencies, and knowledge. In an apprentice training program in equipment repair, advanced standing only on the basis of employer or trade association performance examination because of the limited nature of the skills, competencies, and knowledge (3/75).

MOS–24D–002

HAWK MISSILE-LAUNCHER MECHANIC

24D20

24D40

Exhibit Dates: 2/76–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 234 (Hawk Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on Hawk missile and launcher. *Skill Level 20:* Performs maintenance on Hawk missile, on-missile electronic guidance control components, and mechanical, hydraulic, and electrical systems of launcher and loader-transporter; inspects, tests, and adjusts equipment and components to specified tolerances; assembles, interconnects, and tests components to determine operational condition; identifies malfunctions in electrical mechanical, and fluidic systems, using multimeter and special-design test equipment; repairs fluidic and mechanical components, using basic block diagrams; substitutes electrical and electronic components; supervises the missile crew in installing initiators, electric power unit fuel stick, ignitors, arming devices, and safety devices; performs a limited amount of calibration for special tests sets. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a first-line technical supervisor; establishes workloads and repair priorities; implements quality control measures; conducts on-the-job training; demonstrates proper maintenance and troubleshooting techniques; coordinates work activities with other units; supervises the preparation of technical reports and forms; supervises the requisitioning and storing of supplies and repair parts.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity and 3 in basic electronics, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics). In an electronic technician apprentice training program, 144 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination. In a construction electrician apprentice training program, 72 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in human relations, 3 in personnel supervision, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics). The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–24E–001

IMPROVED HAWK FIRE CONTROL MECHANIC

24E20

24E30

24E40

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 235 (Improved Hawk Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on Improved Hawk fire control equipment and engagement simulator. *Skill Level 20:* Checks and adjusts radar and associated power and test equipment; performs electrical tests and adjustments; determines malfunctions and makes repairs; provides technical assistance in orientation, alignment, or synchronization of subassemblies and systems; installs equipment modifications; prepares maintenance and supply reports and forms. *Skill Level 30:* Able to perform the duties required for Skill Level 20; checks, adjusts, and repairs Improved Hawk engagement simulator; assists in the preparation of training programs for battery crews. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; serves as the first-line technical supervisor for Improved Hawk operators and mechanics; coordinates work activities with supporting maintenance units; demonstrates proper troubleshooting and maintenance techniques; organizes and supervises maintenance and inspection teams; supervises requisitioning and storing of supplies and repair parts.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, and 3 in electronic instruments, and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in electronic instruments, and additional credit in electronics and algebra on the basis of institutional evaluation, for a minimum total of 6 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics). In an electronic technician (sound and manufacturing) apprentice training program, 144 contact hours of related instruction; clock hours of

experience on the basis of employer or trade association performance examination. In a construction electrician apprentice training program, 72 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in electronic instruments, 3 in human relations, and 3 in personnel supervision, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the upper-division baccalaureate category, the recommendation is the same as that for Skill Level 20. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Levels 20 and 30 because additional skills are administrative and supervisory in nature (2/76).

MOS–24F–001

HAWK FIRE CONTROL MECHANIC

24F20

24F30

24F40

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 234 (Hawk Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on Hawk fire control equipment and engagement simulator. *Skill Level 20:* Checks and adjusts radar and associated power and test equipment; performs electrical tests and adjustments; provides technical assistance in orientation, alignment, or synchronization of subassemblies and systems; localizes malfunctions and makes repairs; installs equipment modifications; prepares maintenance and supply forms and reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; checks, adjusts, and repairs Hawk engagement simulator; assists in the preparation of training programs for battery crews. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; serves as the first-line technical supervisor for operator and maintenance personnel; coordinates work activities with supporting maintenance units; demonstrates proper maintenance and troubleshooting techniques; supervises requisitioning and storing of supplies and repair parts; organizes and supervises maintenance and inspection teams.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, and 3 in electronic instruments, and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in electronic instruments, and additional credit in electronics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics). In an electronic technician (sound and manufacturing) apprentice training program, 144 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination. In a construction electrician apprentice training program, 72 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, and 3 in electronic instruments, and additional credit in technical mathematics and electronics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in electronic instruments, 3 in human relations, and 3 in personnel supervision, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics). The recommendation for advanced standing in an apprentice training program is the same as that for Skill Levels 20 and 30 because additional skills are administrative and supervisory in nature (2/76).

MOS–24G–001

IMPROVED HAWK INFORMATION COORDINATION CENTRAL MECHANIC

24G20

24G40

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 235 (Improved Hawk Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on Improved Hawk information and coordination equipment. *Skill Level 20:* Performs maintenance on Improved Hawk continuous wave acquisition radar, coordination central, automatic data equipment, battery terminal equipment, and associated test equipment; performs electrical checks and adjustments on equipment; assists in orientation, alignment, and synchronization of subassemblies and systems; performs equipment modifications; initiates requests for repair parts, test equipment, tools, and supplies; prepares maintenance and supply records and forms. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a first-line supervisor; provides technical supervision in training programs; coordinates work activities; determines faulty work practices and demonstrates proper troubleshooting and maintenance techniques; organizes and supervises maintenance and inspection teams; supervises the requisitioning and storing of supplies and repair part.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, 3 in electronic instruments, and additional credit in technical mathematics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 2 in pulse circuits, 1 in radar/microwave, and additional credit in electronics, digital computer operation, and mathematics on the basis of institutional evaluation, for a minimum total of 6 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics), and additional credit in AC/DC circuits and electron devices on the basis of institutional evaluation. In an electronic technician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. In a construction electrician apprentice training program, advanced standing on the basis of employer or trade association performance examination (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 3 in human relations, 3 in personnel supervision, 2 in pulse circuits, 1 in radar/microwave, and additional credit in electronics, digital computer operation, and mathematics on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the upper-division baccalaureate category, the recommendation is the same as that for Skill Level 20. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–24H–001

IMPROVED HAWK FIRE CONTROL REPAIRMAN

24H20

24H40

Exhibit Dates: 10/73–8/76.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Supervises or performs support maintenance on electronic systems of Improved Hawk fire control equipment. *Skill Level 20:* Inspects, tests, and adjusts components to specific tolerances and determines malfunctions in electronic assemblies, subassemblies, modules, and circuit elements, using common and system special-design test equipment; performs initial and final checkouts and inspections of the system, assemblies, and subassemblies; installs equipment modifications. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes workloads and repair priorities; implements quality control measures; supervises inspection and maintenance teams; organizes and conducts on-the-job training; demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics and 3 in introduction to computer science or data processing, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In an electronic technician apprentice training program, 144 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination. In a construction electrician apprentice training program, 72 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 3 in introduction to computer science or data processing, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 18 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–24H–002

IMPROVED HAWK FIRE CONTROL REPAIRMAN

24H20

24H40

Exhibit Dates: 9/76–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Performs support maintenance and inspections of Improved Hawk battery control centers, including radar consoles, electronic systems, communications systems, computers, and various types of advanced electronic test instruments. *Skill Level 20:* Applies basic electronic theory and advanced circuit concepts in troubleshooting both vacuum tube and solid-state electronic systems and circuits; uses schematics and logic diagrams to trace specific problems in analog, digital, or mechanical systems; uses both electrical and mechanical hand tools when performing adjustments and making repairs; operates sophisticated test instruments such as digital multimeters, frequency counters, time-interval meters, pulse generators, sweep generators, test simulators, dual-trace dual-sweep oscilloscopes, and radar computers; frequently performs repairs and minor calibration of support test instruments; uses simple algebraic and trigonometric formulas for calculating tolerances on various electromechanical systems; logs equipment failures, repairs, and inspections; completes maintenance and supply forms. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes workloads and repair priorities; implements quality control measures; supervises inspection and maintenance teams; organizes and conducts on-the-job training; demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records; prepares maintenance reports.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in basic electronics, 3 in electronics laboratory, 3 in basic algebra and trigonometry, 3 in radar circuit theory, 2 in computer circuit theory, 2 in electromechanics, 2 in instrumentation, and 1 in introduction to television, for a total of 22 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in advanced electronics, 3 in electronics laboratory, and 3 in technical mathematics, for a total of 12 semester hours. In the upper-division baccalaureate category, credit in industrial arts on the basis of institutional evaluation. In an electronics instrument mechanic/repairman apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instructions (5/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in advanced electronics, 3 in electronics laboratory, 3 in technical mathematics, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 21 semester hours. In the upper-division baccalaureate category, credit in industrial arts on the basis of institutional evaluation. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (5/77).

MOS–24J–001

IMPROVED HAWK PULSE RADAR REPAIRMAN

24J20

24J40

Exhibit Dates: 10/73–8/76.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Supervises or performs support maintenance on Improved Hawk pulse radars and associated equipment. *Skill Level 20:* Inspects, tests, and adjusts components to specific tolerances and determines malfunctions in electronic assemblies, subassemblies, modules, and circuit elements, using common and system special-design test equipment; performs initial and final checkouts and inspections of the system, assemblies, and subassemblies; installs equipment modifications. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes workloads and repair priorities; implements quality control measures; supervises inspection and maintenance teams; organizes and conducts on-the-job training; demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccatautreate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, and 3 in radar, for a total of 18 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, 3 in radar, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 27 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–24J–002

IMPROVED HAWK PULSE RADAR REPAIRMAN

24J20

24J40

Exhibit Dates: 9/76–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Performs or supervises support maintenance on Improved Hawk pulse radars and associated equipment. *Skill Level 20:* Maintains improved pulse acquisition radar, range-only radar, test equipment, and systems associated with test equipment; inspects, tests, and adjusts components to specific tolerances; determines malfunctions in electronic assemblies, subassemblies, modules, and circuit elements by using common and system special-design test equipment; determines disposition of defective assemblies, subassemblies, modules, and circuit elements; locates, removes, and replaces defective components and parts; performs initial and final check-outs; installs equipment modifications; completes maintenance and supply forms. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance on Improved Hawk pulse radars and associated equipment; establishes workloads and repair priorities; recommends procedures for receiving, storing, inspecting, testing, and repairing equipment, parts, and supplies; supervises inspection and maintenance teams; organizes and conducts on-the-job training; demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records; prepares maintenance reports.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in basic electricity/electronics, 3 in electricity/electronics laboratory, 3 in radar circuit theory, 3 in tube and transistor circuits, and 3 in technical mathematics, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in advanced electronics, 3 in electronics laboratory, and 3 in technical mathematics, for a total of 12 semester hours. In the upper-division baccalaureate category, credit in industrial arts on the basis of institutional evaluation. In an electronics instrument mechanic/repairman apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (5/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in advanced electronics, 3 in electronics laboratory, 3 in technical mathematics, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 21 semester hours. In the upper-division baccalaureate category, credit in industrial arts on the basis of institutional evaluation. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (5/77).

MOS–24K–001

IMPROVED HAWK CONTINUOUS WAVE RADAR REPAIRMAN

24K20

24K40

Exhibit Dates: 10/73–8/76.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Supervises or performs support maintenance on electronic systems of Improved Hawk continuous wave radars and associated equipment. *Skill Level 20:* Inspects, tests, and adjusts components to specific tolerances and determines malfunctions in electronic assemblies, subassemblies, modules, and circuit elements, using common and system special-design test equipment; performs initial and final checkouts and inspections of the system, assemblies, and subassemblies; installs equipment modifications. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes workloads and repair priorities; implements quality control measures; supervises inspection and maintenance teams; organizes and conducts on-the-job training; demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits and 3 in radar, for a total of 18 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, and 3 in radar, for

a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, 3 in radar, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 27 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–24K–002

IMPROVED HAWK CONTINUOUS WAVE RADAR REPAIRMAN

24K20
24K40

Exhibit Dates: 9/76–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Performs or supervises maintenance on electronic systems of Improved Hawk continuous wave radars, high-power illuminator radars, and associated equipment. *Skill Level 20:* Performs maintenance on Improved Hawk continuous wave radars, high-power illuminator radars, test equipment, mobile team shops, and associated system-peculiar portable test equipment; inspects, tests, and adjusts components to specific tolerances; determines malfunctions in electronic assemblies, subassemblies, modules, and circuit elements by using common and system-design test equipment; removes and replaces defective components and parts; determines disposition of defective assemblies, subassemblies, modules, and circuit elements; performs initial and final check-outs; installs equipment modifications; completes maintenance and supply forms. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance on Improved Hawk continuous wave radars and associated equipment; establishes workloads and repair priorities; recommends procedures for receiving, storing, inspecting, testing, and repairing equipment and parts; organizes and conducts on-the-job training programs; supervises maintenance and inspection teams; demonstrates proper work procedures and troubleshooting techniques; keeps maintenance records; prepares maintenance reports.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in basic electricity/electronics, 3 in electricity/electronics laboratory, 3 in radar circuit theory, 3 in tube and transistor circuits, and 3 in technical mathematics, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in advanced electronics, 3 in electronics laboratory, and 3 in technical mathematics, for a total of 12 semester hours. In the upper-division baccalaureate category, credit in industrial arts on the basis of institutional evaluation. In an electronics instrument mechanic/repairman apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (5/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in advanced electronics, 3 in electronics laboratory, 3 in technical mathematics, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 21 semester hours. In the upper-division baccalaureate category, credit in industrial arts on the basis of institutional evaluation. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (5/77).

MOS–24L–001

IMPROVED HAWK LAUNCHER AND MECHANICAL SYSTEMS REPAIRMAN

24L20
24L40

Exhibit Dates: 9/76–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Supervises or performs maintenance on electrical, hydraulic, hydropneumatic, mechanical, and electromechanical portions of the Improved Hawk missile system and on the electronic systems of the Improved Hawk launcher and associated test equipment. *Skill Level 20:* Inspects, tests, and adjusts components to specific tolerances; determines deficiencies in electronic, electrical, hydraulic, hydropneumatic, mechanical, and electromechanical assemblies, subassemblies, and circuits by using common and system special-design test equipment; removes and replaces defective components and determines their disposition; performs load testing and maintenance calibration; repairs job-related tools and equipment; installs electrical, hydraulic, hydropneumatic, mechanical, and electromechanical modifications on Improved Hawk system items; completes maintenance and supply forms. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance of electrical, mechanical, electromechanical, hydraulic, and hydropneumatic systems of the Improved Hawk missile system and of the electronics system of the Improved Hawk launcher; establishes workloads and repair priorities; recommends procedures for receiving, storing, inspecting, testing, and repairing items; organizes and conducts on-the-job training programs; demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records; prepares maintenance reports.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity, 3 in electromechanical systems, 3 in mechanics, 3 in hydraulics, 3 in technical mathematics, and 1 in care and use of tools, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in mechanics, 3 in hydraulics, and 3 in technical mathematics, and additional credit in electronics, electricity, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the upper-division baccalaureate category, credit in industrial arts on the basis of institutional evaluation. In a wireman-electrician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction (5/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in mechanics, 3 in hydraulics, 3 in technical mathematics, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, and additional credit in electronics, electricity, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 21 semester hours. In the upper-division baccalaureate category, credit in industrial arts on the basis of institutional evaluation. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (5/77).

MOS–24M–001

VULCAN SYSTEM MECHANIC

24M20
24M30
24M40

Exhibit Dates: 10/73–8/77.

Career Management Field: 27 (Combat Missile Maintenance), *subfield* 271 (Combat Missile Mechanics).

Description

Summary: Supervises or performs maintenance on Vulcan weapon system and associated equipment. *Skill Level 20:* Performs routine maintenance on the range-only radar, the rapid alerting identification display, and test, diagnostic, and measuring equipment, uses test equipment to determine malfunctioning components, parts, and accessories; initiates requests for repair parts, tools, test equipment, and other supplies. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs maintenance on the forward area alert radar. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; provides technical supervision in training programs for operator and maintenance personnel; coordinates work activities with supporting units; demonstrates proper maintenance and troubleshooting techniques; is responsible for requisitioning and storing supplies and repair parts.

Recommendation, Skill Levels 20 and 30

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (2/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 9 semester hours (2/76).

MOS–24M–002

VULCAN/FAAR SYSTEM MECHANIC

24M10
24M20
24M30
24M40

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–24N–001

CHAPARRAL SYSTEM MECHANIC

24N20
24N30
24N40

Exhibit Dates: 10/73–8/77.

Career Management Field: 27 (Combat Missile Maintenance), *subfield* 271 (Combat Missile Mechanics).

Description

Summary: Supervises or performs maintenance on Chaparral weapon systems and on forward area alert radar. *Skill Level 20:* Performs routine maintenance on Chaparral weapons systems, using test equipment to locate malfunctions in the assemblies and subassemblies of the systems; initiates requests for repair parts, tools, test equipment, and other supplies.

Skill Level 30: Able to perform the duties required for Skill Level 20; performs maintenance on Forward Area Alert Radar (FAAR). *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; provides technical supervision in training programs for operational and maintenance personnel; coordinates work activities with supporting units; demonstrates proper maintenance and troubleshooting techniques; organizes and supervises maintenance and inspection teams; is responsible for requisitioning and storing supplies and repair parts.

Recommendation, Skill Levels 20 and 30

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (2/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 9 semester hours (2/76).

MOS–24N–002

CHAPARRAL SYSTEM MECHANIC

24N10
24N20
24N30
24N40

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–24P–001

DEFENSE ACQUISITION RADAR MECHANIC

24P20
24P40

Exhibit Dates: 10/73–Present.

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 261 (Radar Mechanics).

Description

Summary: Supervises or performs maintenance of air defense acquisition radars. *Skill Level 20:* Performs maintenance on high-power acquisition radars, low-power acquisition radars, auxiliary battery acquisition radars, communications systems security devices, battery control circuits, and fire unit integration facility; performs maintenance checks with specialized test and measuring devices; locates and isolates malfunctions; inspects, tests, and replaces defective components; makes adjustments to return equipment to operating order; keeps maintenance records and prepares equipment maintenance reports. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance activities; supervises preparation and administration of maintenance records and reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and test equipment operation, and 3 in tubes and transistor circuits, for a total of 15 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and test equipment operation, and 3 in tubes and transistor circuits, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and test equipment operation, 3 in tubes and transistor circuits, 3 in personnel supervision, and 3 in human relations, for a total of 21 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–24Q–001

NIKE-HERCULES FIRE CONTROL MECHANIC

24Q20
24Q30
24Q40

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 232 (Nike Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on missile fire control equipment and radar target simulator. *Skill Level 20:* Checks and adjusts target and missile tracking and ranging radar systems, computers, multichannel data recorders, and associated battery control circuits, locates and repairs malfunctions, using common and special-design tools and test equipment; installs equipment modifications. *Skill Level 30:* Able to perform the duties required for Skill Level 20; maintains radar target simulator. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; is a first-line technical supervisor; trains maintenance personnel; coordinates work activities with other maintenance units; demonstrates proper maintenance and troubleshooting techniques; organizes and supervises maintenance and inspection teams; establishes workloads and repair priorities; supervises the requisitioning and storing of repair parts and supplies.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in technical mathematics, 2 in control systems, 1 in systems maintenance, 1 in communication systems (electronics), 1 in shop practices, and 1 in alignment techniques (video), for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in radar/microwave theory, 2 in DC circuit analysis, 2 in AC circuit analysis, 2 in digital circuit analysis, 1 in digital computer fundamentals, 1 in electronic instruments, and 1 in transistor/tube theory, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) and additional credit in electron device theory, radar/microwave, digital computers, and circuit analysis on the basis of institutional evaluation. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in radar/microwave theory, 3 in human relations, 3 in personnel supervision, 2 in DC circuit analysis, 2 in AC circuit analysis, 2 in digital circuit analysis, 1 in digital computer fundamentals, 1 in electronic instruments, and 1 in transistor/tube theory, for a total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) and additional credit in electron device theory, radar/microwave, digital computers, and circuit analysis on the basis of institutional evaluation; *if the duty assignment was chief fire control mechanic,* 3 additional semester hours for field experience in management, for a minimum total of 6 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Levels 20 and 30 because additional skills are administrative and supervisory in nature (2/76).

MOS–24U–001

HERCULES ELECTRONICS MECHANIC

24U20
24U40

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 232 (Nike Missile System Mechanics).

Description

Summary: Supervises or performs maintenance on Hercules missiles, airframes, and launching devices. *Skill Level 20:* Assembles, installs, maintains, and adjusts mechanical on-missile guidance control systems and associated equipment; assembles and interconnects electronic missile components; locates and repairs malfunctions, using common and special-design tools and test equipment; initiates requisitions for repair parts, tools, test equipment, and supplies. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as the first-line technical supervisor of Hercules electronics mechanics; establishes workloads and maintenance priorities; coordinates maintenance activities with other units; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; organizes and supervises inspection and maintenance teams; supervises the preparation of technical reports and forms.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, and 3 in electronic instruments, and additional credit in advanced electronics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in basic electricity, and 3 in technical mathematics (including trigonometry), for a total of 9semester hours. In an electronic technician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. In a construction electrician apprentice training program, advanced standing on the basis of employer or trade association performance examination (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electricity, 3 in basic electronics, 3 in electronic instruments, and 3 in advanced electronics, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in basic electricity, 3 in technical mathematics (including trigonometry), and 3 in human relations, for a total of 12 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS–24V–001

IMPROVED HAWK MAINTENANCE CHIEF

24V50

Exhibit Dates: 10/73–8/76.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Supervises the maintenance of the Improved Hawk missile system; assists in the development of the quality assurance/quality control program and supervises its implementation; interprets policy; recommends changes in policy and procedures; advises superiors on all personnel matters; plans all work activities and operations; directs on-the-job training. NOTE: May have progressed to 24V50 from Skill Level 40 of any Improved Hawk mechanic or repairman MOS.

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in human relations, 3 in maintenance management, 3 in industrial arts education (electronics), and 6 for field experience in management, for a minimum total of 18 semester hours; *if the duty assignment was maintenance chief*, 3 additional semester hours in personnel management, for a total of 21 semester hours; *if the duty assignment was chief instructor in a training facility*, 3 additional semester hours for an internship in education, for a total of 21 semester hours (2/76).

MOS–24V–002

IMPROVED HAWK MAINTENANCE CHIEF

24V50

Exhibit Dates: 9/76–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Supervises and coordinates maintenance of Improved Hawk missile system, including launcher; assists in the development of the quality control program and supervises its implementation; interprets policies and procedures; advises superiors on technical and personnel matters; plans work activities and operations; assists in planning and accomplishing on-the-job training; directs and coordinates the administration of the unit to which assigned; assists company commander with inspections, observes discrepancies, and initiates appropriate corrective action. NOTE: May have progressed to 24V50 from Skill Level 40 of any Improved Hawk mechanic or repairman MOS.

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in supervision and leadership, 3 in maintenance management, 3 in industrial arts education, and 6 for field experience in management, for a minimum total of 18 semester hours; *if the duty assignment was chief instructor in a training facility*, 3 additional semester hours for an internship in education, for a total of 21 semester hours (5/77).

MOS–25D–001

BIRDIE REPAIRMAN

25D20

25D40

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 238 (Fire Distribution Systems Repair).

Description

Summary: Supervises or performs support maintenance on battery integration radar display equipment (BIRDIE) and associated radar data processing equipment (RDPE). *Skill Level 20:* Troubleshoots circuitry; conducts lamp tests on test panel, replaces indicators, substitutes circuit packages; repairs or replaces defective test panel internal circuitry; troubleshoots and aligns data link system; test operates monitor console; adjusts deflection presentations, offset functions, and range marker accuracy; adjusts sweep and tag amplifiers for zero and test voltages, using portable oscilloscope and test panel; aligns analog subsystem by measuring and adjusting amplitude and phase; adjusts sweep resolver to align servomechanism; maintains air conditioners, test equipment, and tools. *Skill Level 40:* Able to perform the duties required for Skill Level 20; coordinates work activities with equipment operators and fire distribution terminal equipment repairmen; is responsible for the preparation of technical and administration records and reports; prepares, plans, and schedules work shifts and assignments; observes, corrects, instructs, and supervises subordinate personnel in proper maintenance techniques and procedures; diagnoses complex equipment malfunctions.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics (including AC and DC circuits and use of test equipment), 3 in technical mathematics, 1 in digital circuits, and additional credit in electronics, mathematics, and computer science on the basis of institutional evaluation, for a minimum total of 10 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics (including AC and DC circuits and use of test equipment), 3 in technical mathematics, 1 in digital circuits, 3 in human relations, 3 in maintenance supervision, 3 for field experience in management, and additional credit in electronics, mathematics, and computer science on the basis of institutional evaluation, for a minimum total of 19 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–25G–001

MOBILE ADCP MONITOR REPAIRMAN

25G20

25G40

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 238 (Fire Distribution Systems Repair).

Description

Summary: Maintains weapons monitoring center and associated mobile monitor equipment. *Skill Level 20:* Troubleshoots and repairs or replaces analog, digital, and analogdigital interface circuits; repairs or replaces monitor equipment components, such as buffers, magnetic drum and memory read-write amplifiers, display generators, consoles, cathode ray displays, radar data converters, data links, sequencers, computers, communications, and power supplies; uses oscilloscopes, digital testers, signal generators, transistor testers, tube testers, frequency meters, electronic voltmeters, and multimeters; performs field maintenance on test equipment, air conditioners, and equipment vans; modifies equipment to work order specifications. *Skill Level 40:* Prepares, plans, and schedules work shifts and assignments; observes, corrects, and instructs personnel in proper maintenance techniques and procedures; advises and assists repair personnel in solving complex maintenance problems; prepares technical and administrative records and reports. NOTE: May have progressed to 25G40 from either 25G20 or 25H20 (Radar Data Processing Equipment Repairman).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in basic electronics (including DC and AC circuits and use of test equipment), 3 in tube and transistor circuits, and 3 in digital circuits, for a total of 18 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in technical mathematics, 6 in basic electronics (including DC and AC circuits and use of test equipment), 3 in tube and transistor circuits, and 3 in digital circuits for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in basic electronics (DC and AC circuits and use of test equipment), 3 in tube and transistor circuits, 3 in digital circuits, 3 in human relations, 3 in maintenance supervision, and 3 for field experience in management, for a total of 27 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–25H–001

RADAR DATA PROCESSING EQUIPMENT REPAIRMAN

25H20

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 238 (Fire Distribution Systems Repair).

Description

Troubleshoots, diagnoses malfunctions, and repairs radar data processing and associated mobile monitoring equipment, such as buffers, magnetic drum and memory read-write amplifiers, display generators, digilogs, cathode ray displays and associated circuitry, consoles, data links, sequencers, remote data controls, radar data information circuits, communications, and power supplies; uses block diagrams, schematics, wire run charts and electronic test equipment; modifies equipment to work order specifications; maintains tools, test equipment, air conditioners, and equipment vans; keeps maintenance records; requisitions parts and subassemblies.

Recommendation

In the vocational certificate category, 6 semester hours in basic electronics, 6 in mathematics and trigonometry, 3 in digital circuits, 3 in tube and transistor circuits, and additional credit in basic electronics on the basis of institutional evaluation, for a minimum total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 6 in technical mathematics, 3 in digital circuits, 3 in tube and transistor circuits, and additional credit in computer technology on the basis of institutional evaluation, for a minimum total of 18 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS–25J–001

OPERATIONS CENTRAL REPAIRMAN

25J20

25J40

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 238 (Fire Distribution Systems Repair).

Description

Summary: Supervises or performs support maintenance on operations central. *Skill Level 20:* Diagnoses malfunctions; locates defects; repairs and replaces components, including binary counters, relays, digital card assemblies, vacuum tubes, cathode ray tubes, summing network circuits, power supplies, and associated regulation circuits; performs inspections and conducts system tests; studies and interprets technical manuals, schematics and wiring diagrams; organizes troubleshooting and maintenance procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises repair activites; observes, corrects, and instructs subordinates in proper maintenance techniques and procedures; coordinates maintenance functions with supported units; prepares records and reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in direct current, 3 in alternating current, 6 in technical mathematics, 3 in tube and transistor circuits, and 3 in digital circuits, for a total of 21 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in direct current, 3 in alternating current, 6 in technical mathematics, 3 in tube and transistor circuits, 3 in digital circuits, 3 in human relations, 3 in maintenance supervision, and 3 for field experience in management, for a total of 30 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–25K–001

AN/TSQ–51 SYSTEM REPAIRMAN/ MAINTENANCE CHIEF

25K20

25K40

25K50

Exhibit Dates: 9/75–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 238 (Fire Distribution Systems Repair).

Description

Summary: Supervises or performs support maintenance on the Air Defense Command and Control System (AN/TSQ–51). *Skill Level 20:* Performs full range of maintenance on display consoles, display and signal generation equipment, radar integration and video processing equipment, and general-purpose computers; troubleshoots equipment circuitry; diagnoses malfunctions and locates defects; repairs or replaces components in system; test-operates system; studies and interprets technical material diagrams, computer program, and interconnection lists; modifies system and components. *Skill Level 40:* Able to perform duties required for Skill Level 20; supervises maintenance activities; schedules work shifts and assignments; provides technical guidance; prepares technical and administrative records and reports. *Skill Level 50:* Able to perform the duties required for 25K40, 25D40 (BIRDIE Repairman), 25G40 (Mobile ADCP Monitor Repairman), or 25J40 (Operations Central Repairman); supervises fire distribution system maintenance unit at brigade or comparable level; supervises tactical movements of mobile fire distribution system; coordinates installation of equipment; handles classified material; diagnoses and determines causes of unusual or recurrent malfunctions; prepares reports and makes recommendations for modification of components; serves as chief instructor in a training facility.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in direct current, 3 in alternating current, 3 in basic electronics, 3 in introduction to computer science, 3 in technical mathematics (including algebra and trigonometry), and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 15 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in direct current, 3 in alternating current, 2 in basic electronics, 3 in introduction to computer science, 3 in technical mathematics (including algebra and trigonometry), 3 in human relations, 3 in personnel supervision, 3 for field experience in management, 3 in industrial arts education (electronics), and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 27 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics), 3 in introduction to management, 3 in maintenance management, 3 in human relations and 6 for field experience in management, for a minimum total of 18 semester hours; *if the duty assignment was maintenance chief*, 3 additional semester hours in personnel management, for a total of 21 semester hours; *if the duty assignment was chief instructor in a training facility*, 3 additional semester hours for an internship in education, for a total of 21 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–25L–001

AN/TSQ–73 AIR DEFENSE ARTILLERY COMMAND AND CONTROL SYSTEM OPERATOR/REPAIRER

25L10

25L20

25L30

25L40

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–26B–001

WEAPONS SUPPORT RADAR REPAIRMAN

26B20

26B30

Exhibit Dates: 10/73–Present.

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 262 (Ground Radar Repair).

Description

Summary: Performs maintenance on weapons support radar and associated equipment. *Skill Level 20:* Uses hand tools and test and measuring equipment to detect sources of malfunctions in weapons support radars; interprets schematic diagrams and technical material; replaces faulty components; adjusts operating radars and associated equipment for maximum performance. *Skill Level 30.* Able to perform the duties required for Skill Level 20; adjusts recorders, relays, controls, and power units; determines the extent of required maintenance; makes comparison checks of repaired equipment with test standards; keeps work logs; prepares supply requisitions.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and test equipment operation, 3 in tube and transistor circuits, and 3 in radar, for a total of 18 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS–26C–001

COMBAT AREA SURVEILLANCE RADAR REPAIRMAN

26C20

Exhibit Dates: 10/74–8/77.

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 262 (Ground Radar Repair).

Description

Maintains ground surveillance and light air defense Doppler radars and associated equipment; uses voltmeters, ohmmeters, signal generators, oscilloscopes, and other testing devices to localize and isolate source of malfunction; determines extent of required maintenance; replaces faulty components, including vacuum tubes, resistors, capacitors, and multivibrators; adjusts relays, dials, and controls; applies electrical theory to series and parallel circuitry motors and generators; interprets circuit diagrams, block diagrams, schematics, and technical manuals.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transitor circuits, and 3 in radar, for a total of 18 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS–26C–002

COMBAT AREA SURVEILLANCE RADAR REPAIRER

26C10

26C20

26C30

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–26D–001

GROUND CONTROL APPROACH RADAR REPAIRMAN

26D20

Exhibit Dates: 10/73–8/77.

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 262 (Ground Radar Repair).

Description

Inspects, tests, and repairs ground control radar equipment at field and depot level; utilizes test equipment such as multimeters, electronic voltmeters, oscilloscopes, signal generators, echo boxes, and other test equipment to troubleshoot radar systems to the component level; replaces faulty components, including vacuum tubes, transistors, resistors, and capacitors; adjusts relays, dials, and controls; adjusts and aligns equipment to specified performance levels; interprets circuit diagrams, block diagrams, schematics, and technical manuals.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, and 3 in radar, for a total of 18 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS–26D–002

GROUND CONTROL APPROACH RADAR REPAIRER

26D10

26D20

26D30

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–26E–001

AERIAL SURVEILLANCE SENSOR REPAIRER

26E10

26E20

26E30

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–26H–001

AIR DEFENSE RADAR REPAIRMAN

26H20

26H30

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 231 (Nike Missile System Repair).

Description

Summary: Performs maintenance on air defense radars and associated equipment, including height, azimuth, and distance finding radars, servo, data transmission systems, and computers. *Skill Level 20:* Keeps tools and test equipment in operating condition; makes detailed tests of operating stages of the equipment, using the voltmeter, ohmmeter, echo box, signal generator, and oscilloscope; determines causes of malfunctions and replaces faulty components; operates, aligns, and comparison-checks repaired equipment with test standards; performs modification work orders; interprets circuit diagrams, schematics, and technical manuals; troubleshoots by sectionalization, localization, and isolation; performs servo, timing, and gating circuitry analysis. *Skill Level 30:* Able to perform the duties required for Skill Level 20; maintains specialized air defense radars.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in technical mathematics, 3 in basic electronics, 1 in shop practices, and 1 in use and care of tools and test equipment, and additional credit in advanced electronics on the basis of institutional evaluation, for a minimum total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in radar/microwave theory, 2 in DC circuit analysis, 2 in AC circuit analysis, 1 in electronic instruments, and 1 in transistor/tube theory, and additional credit in computer science on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics). In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS–26K–001

ELECTRONIC WARFARE EQUIPMENT REPAIRMAN

26K20

26K40

Exhibit Dates: 10/73–8/77.

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 263 (Airborne Surveillance Equipment Repair).

Description

Summary: Performs field and depot maintenance on electronic systems used for countermeasures and warfare support. *Skill Level 20:* Uses test equipment such as multimeters, electronic voltmeters, oscilloscopes, signal generators, and other electronic test equipment to troubleshoot electronic equipment to the component level; determines if equipment meets original specifications after repair; dismantles and repairs circuit wiring; replaces parts, including vacuum tubes, transistors, resistors, capacitors, and printed circuit cards; adjusts relays, dials, and controls; performs maintenance on electrical generators, amplydines, and selsyn motors; interprets complex circuit diagrams. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises personnel by scheduling work assignments and loads, evaluating personnel performance, preparing technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, and 3 in tube and transistor circuits, for a total of 15 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction on the basis of employer or trade association performance examination. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, and 3 in tube and transitor circuits, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, 3 in maintenance supervision, 3 in human relations, and 3 for field experience in management, for a total of 24 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–26K–002

AERIAL ELECTRONIC WARNING DEFENSE EQUIPMENT REPAIRER

26K10

26K20

26K30

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–26L–001

TACTICAL MICROWAVE SYSTEMS REPAIRMAN

26L10

26L20

26L40

Exhibit Dates: 10/73–Present.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 312 (Tactical Electronics Maintenance).

Description

Summary: Performs installations, operational adjustments, and maintenance of line-of-sight microwave and troposcatter radio and multiplexing equipment, and related power equipment; applies common basic electronics theory and schematic-reading skills in interpreting circuit functions and specifications; uses common and specialized tools and multimeters in performing operational checks and in diagnosing troubles in microwave equipment; performs preventive maintenance of equipment, adjusts, lubricates, and cleans electrical and mechanical components; applies safety precautions when working around high voltages and performs emergency action in the event of injury; prepares and keeps records for prescribed equipment load lists. *Skill Level 10:* Installs and operates tactical line-of-sight microwave and troposcatter radio and multiplexing equipment and related power equipment; performs operational tests on equipment; follows safety measures and provides first aid when necessary; uses tools and multimeters in performing preventive maintenance procedures. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and performs complex maintenance of tactical microwave radio equipment; uses specified tools and test instruments in diagnosing and repairing equipment; prepares and keeps maintenance and operational logs and records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises installation, operation, and maintenance of tactical microwave communications systems; prepares technical and administrative reports; supervises, coordinates, or conducts training programs; normally supervises 3–8 persons.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 6 semester hours in basic AC/DC electronics theory and laboratory, 6 in radio frequency circuit

systems and functions, 2 in microwave communications, 1 in high frequency amplifier circuits and devices, 1 in elementary algebra, and 1 in safety and first aid, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 6 in radio/microwave communications, and 1 in safety and first aid, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 semester hours for a technical elective and 3 in industrial arts. In an electronic technician or communications technician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electronics, 6 in radio/microwave communications, 1 in safety and first aid, 3 in introduction to management, and 3 in human relations, for a total of 19 semester hours. In the upper-division baccalaureate category, 3 semester hours for a technical elective, 3 in industrial arts, and 3 for field experience in management, for a total of 9 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Levels 10 and 20 because additional skills are administrative and supervisory in nature (3/76).

MOS–26M–001

AIRBORNE SURVEILLANCE RADAR REPAIRMAN

26M20

26M40

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 26M was discontinued for use in the Active Army and retained for use in the Reserve Forces only.)

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 263 (Airborne Surveillance Equipment Repair).

Description

Summary: Supervises, inspects, and performs support and depot maintenance on airborne surveillance radar systems and associated ground equipment. *Skill Level 20:* Performs support and depot maintenance on side-looking airborne radar systems (including the airborne surveillance radar, radar data transmitting set, radar receiving set, and data transfer system alignment); inspects, tests, and repairs malfunctioning equipment by using voltmeters, ohmmeters, signal generators, and oscilloscopes; adjusts, calibrates, and aligns equipment to manufacturers' specifications; performs authorized modifications and advises maintenance personnel on changes in operation and maintenance requirements due to equipment modification; prepares appropriate maintenance and supply forms and reports; keeps tools and test equipment in proper operating condition and accurately calibrated. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance activities and technician training functions. *NOTE:* May have progressed to 26M40 from 26M20 or 41G20 (Surveillance Photographic Equipment Repairman).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transitor circuits, and 3 in radar, for a total of 18 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction 2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transitor circuits, 3 in radar, and additional credit in digital electronics on the basis of institutional evaluation, for a minimum total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, 3 in radar, 3 in human relations, 3 in maintenance supervision, 3 for field experience in management, and additional credit in digital electronics, algebra, and trigonometry on the basis of institutional evaluation, for a minimum total of 27 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–26M–002

AERIAL SURVEILLANCE RADAR REPAIRER

26M10

26M20

26M30

Exhibit Dates: 9/77–Present.

Career Management Field: 28 (Aviation Communications-Electronics Systems Maintenance).

Description

Effective 9/77, MOS 26M was discontinued for use in the Active Army and retained for use in the Reserve Forces only. The American Council on Education will not be able to evaluate MOS 26M until after the Skills Qualification Tests for 26M, 26M20, and 26M30 have been developed, which is not expected until 1981.

Recommendation, All Skill Levels

Credit on the basis of institutional evaluation.

MOS–26N–001

SURVEILLANCE INFRARED REPAIRMAN

26N20

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 26N was discontinued for use in the Active Army and retained for use in the Reserve Forces only.)

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 263 (Airborne Surveillance Equipment Repair).

Description

Performs support and depot maintenance of infrared surveillance systems; locates and determines causes of malfunctions by circuit diagrams and specialized testing; repairs, modifies, and aligns by using test equipment and specialized hand tools; provides technical assistance; performs administrative duties including requisitioning, stocking, and filing of repair parts and supplies.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, and 3 in radio, for a total of 18 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of experience and 72 contact hours of related instruction (2/76).

MOS–26N–002

AERIAL SURVEILLANCE INFRARED REPAIRER

26N10

26N20

Exhibit Dates: 9/77–Present.

Career Management Field: 28 (Aviation Communications-Electronics Systems maintenance).

Description

Effective 9/77, MOS 26N was discontinued for use in the Active Army and retained for use in the Reserve Forces only. The American Council on Education will not be able to evaluate MOS 26N until after the Skills Qualification Tests for 26N10 and 26N20 have been developed, which is not expected until 1981.

Recommendation, Skill Level 10 and 20

Credit on the basis of institutional evaluation.

MOS–26P–001

RADIO PROPAGATION SPECIALIST

26P20

26P40

26P50

Exhibit Dates: 10/73–Present.

Career Management Field: 32 (Fixed Plant Communications Maintenance).

Description

Summary: Performs inspections and maintenance on specialized electromagnetic equipment. *Skill Level 20:* Installs, operates, maintains, and repairs radio propagation equipment; locates malfunctions of major components; adjusts equipment, using standardized and specialized meters and oscilloscopes; interprets circuit diagrams, schematic diagrams, and technical literature pertaining to operation and maintenance of ionosonde, field intensity, radio noise measuring, and associated equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; performs routine management functions of a radio propagation station; supervises ionosphere recording operations and associated radio propagation tests and analysis activities; supervises installation of equipment; may write specifications for equipment and technical reports; prepares work schedules and operating procedures; demonstrates correct maintenance and operating procedures; keeps work logs; prepares supply requisitions; prepares and consolidates technical and administrative reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; organizes and directs survey teams; plans and controls maintenance of facility equipment and physical plant; diagnoses and determines causes of unusual malfunctions; evaluates test equipment; determines tool requirements; provides technical assistance and on-the-job training for subordinate personnel.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics and 2 in technical mathematics. In an electronics technician (communications) apprentice training program, 500 clock hours of experience and 60 contact hours of related instruction (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendations is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics, 3 in personnel supervision, 3 in human relations, and 2 in technical mathematics, for a total of 14 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

Recommendation, Skill Level 50

In the vocational certificate category, the

recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, and 3 in maintenance management, for a total of 12 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS–26T–001

TELEVISION EQUIPMENT REPAIRMAN

26T20
26T30
26T40
26T50

Exhibit Dates: 10/73–2/77.

Career Management Field: 72 (Telecommunications and Audio-Visual), *subfield* 722 (Audio-Visual).

Description

Summary: Installs, operates, and repairs monochrome and color television receivers, monochrome and color camera chains and film chains, video tape equipment, television transmitting equipment, and television microwave relay systems. *Skill Level 20:* Installs and operates television receivers, cameras, and tape equipment; locates malfunctions of major components; adjusts equipment for proper performance; uses common test equipment such as VOM and oscilloscope; keeps transmitter logs; reads schematic diagrams and wiring diagrams. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assures video quality and is capable of diagnosing substandard video transmission; is familiar with equipment capabilities and limitations. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; knows equipment operating parameters; supervises repair and testing of equipment; assists in writing specifications for equipment purchases; increases proficiency beyond Skill Level 30 in diagnosing malfunctions from schematic diagrams; supervises 5 to 29 personnel. *Skill Level 50:* Able to perform the duties required for Skill Level 40; prepares maintenance schedules; evaluates test equipment and tool requirements; supervises equipment modifications; provides technical assistance for maintenance and repair; supervises 30 or more persons; provides on-the-job training.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in television equipment (closed circuit and cable TV) repair and additional credit on the basis of institutional evaluation. In a television broadcast engineer or a television repairman apprentice training program, 400 clock hours of experience and 50 contact hours of related instruction (2/75).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in television equipment (closed circuit and cable TV) repair and additional credit on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in television equipment repair. In a television broadcast engineer or a television repairman apprentice training program, 800 clock hours of experience and 100 contact hours of related instruction (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in television equipment (closed circuit and cable TV) repair and additional credit on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in television equipment repair and 3 for a practicum in personnel management. In a television broadcast engineer or television repairman apprentice training program, 1,200 clock hours of experience and 150 contact hours of related instruction. NOTE: At this level in civilian television broadcast service, a first-class FCC operators license is mandatory; the skills and knowledge required to pass the FCC license examination are broader in scope than those required for the performance of this MOS (2/75).

Recommendation, Skill Level 50

In the vocational certificate category, 9 semester hours in television equipment (closed circuit and cable TV) repair and additional credit on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in television equipment repair and 3 for a practicum in personnel management. In the upper-division baccalaureate category, 3 semester hours in maintenance management. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 40 because additional skills are administrative and supervisory in nature (2/75).

MOS–26T–002

RADIO/TELEVISION SYSTEMS SPECIALIST

26T10
26T20
26T30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–26U–001

UNATTENDED GROUND SENSOR SYSTEMS REPAIRMAN

26U20
26U40

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 26U was discontinued and its functions were incorporated into MOS 17K, Ground Surveillance Radar Crewman, or MOS 17M, Unattended Ground Sensor Specialist.)

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 171 (Combat Surveillance).

Description

Summary: Supervises and performs maintenance on the unattended ground sensor systems. *Skill Level 20:* Diagnoses and repairs electronic sensors; operates test equipment in automatic, semiautomatic, and manual modes; determines faults in the data transmission, relay, receiver, recorder/display assemblies, sensor module construction, and associated equipment; removes, repairs, and replaces malfunctioning assemblies, subassemblies, modules, and/or component parts; checks out radio frequency channel and unique digital or analog message format of sensor; aligns, adjusts, and repairs equipment; modifies systems; interprets electronic circuit diagrams; applies safety precautions. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance of the unattended ground sensor systems; organizes units; instructs operator personnel; keeps equipment records and prepares reports; diagnoses and determines causes of unusual malfunctions.

Recommendation, Skill Level 20

In the vocational category or in the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics and 3 in equipment repair. Fully qualified to enter an apprentice training program in the electrical and electronic trades (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 3 in equipment repair, 3 in human relations, 3 for field experience in management, and additional credit in technical writing on the basis of institutional evaluation, for a minimum total of 12 semester hours; *if the duty assignment was platoon sergeant,* 3 additional semester hours in personnel supervision, for a minimum total of 15 semester hours. Fully qualified to enter an apprentice training program in the electrical and electronics trades (3/76).

MOS–26V–001

STRATEGIC MICROWAVE SYSTEMS REPAIRMAN

26V10
26V20
26V40
26V50

Exhibit Dates: 10/73–Present.

Career Management Field: 32 (Fixed Plant Communications Maintenance).

Description

Summary: Installs, maintains, and operates line-of-sight and tropospheric scatter microwave communications equipment; wires and connects equipment for installation; makes performance tests on operating equipment, using only one type of equipment for testing. *Skill Level 10:* Knows terminology and can read simple wiring diagrams; uses manuals to interpret meter readings to determine equipment condition; under supervision, operates basic microwave equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; uses basic electronics mathematics and becomes proficient in reading schematic diagrams of subassemblies; under supervision, repairs complicated microwave communications equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; becomes familiar with interconnect concepts; troubleshoots and repairs electronic circuits; applies knowledge of microwave antenna radiation to select operational sites; is a first-line supervisor of personnel who operate and repair microwave communications equipment; as an office manager, makes shift and work assignments, issues instructions, and writes technical and administrative reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; as a mid-level manager, supervises the technical operation and repair of communications equipment, writes instructions and technical reports pertaining to system operations, and may supervise 30 or more persons.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics (2/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics. In the electronics technician or a communications fixed plant installer or repairman apprentice training program, 480 clock hours of experience and 60 contact hours of related instruction (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics and 3 in personnel supervision or office management, for a total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management or in administration. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/75).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics and 6 in personnel supervision or office management, for a total of 12 semester hours. In the upper-division baccalaureate category, 6 semester hours in personnel management or in administration. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature. NOTE: At this level in a comparable civilian occupation, a second-class FCC radio operators license is mandatory; the skills and knowledge, particularly in mathematics and electronics theory, required to pass the FCC license examination are broader in scope than those required for the performance of this MOS (2/75).

MOS–26W–001

RADAR MAINTENANCE SUPERVISOR—INSPECTOR

26W20

26W40

26W50

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 26W was discontinued and its functions were incorporated into MOS 26C, Combat Area Surveillance Radar Repairer; MOS 35P, Avionic Equipment Maintenance Supervisor; or MOS 27F, Vulcan Repairer.)

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 262 (Ground Radar Repair).

Description

Summary: Supervises maintenance and performs technical inspection of non-integrated radars including ground surveillance, weapons support, ground control, airborne, and air defense radars and associated equipment. *Skill Level 20:* Able to perform the duties of any radar repair MOS in career management field 26; inspects and checks maintenance performed by Skill Level 20 personnel in radar repair MOS's for adequacy, suitability, and workability; inspects for wear, damage, and performance; measures performance against test standards; ascertains needed replacements or repairs of component parts. NOTE: May have progressed to 26W20 from 26B20, 26B30 (Weapons Support Radar Repairman), 26C20 (Combat Area Surveillance Radar Repairman), 26D20 (Ground Control Approach Radar Repairman), 26K20 (Electronic Warfare Equipment Repairman), 26M20 (Airborne Surveillance Radar Repairman), or 26N20 (Surveillance Infrared Repairman). *Skill Level 40:* Able to perform the duties required for Skill Level 20 and for any radar repair MOS in career management field 26; supervises radar repair units; organizes and supervises repair team activities, plans work schedules, supervises maintenance and repair; interprets complex specification, circuit, schematic, and cable diagrams; analyzes malfunctions and recommends corrective action. NOTE: May have progressed to 26W40 from either 26W20 or 26B30 (Weapons Support Radar Repairman). *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises maintenance unit at battalion or higher level; organizes maintenance facilities and plans maintenance schedule; prepares reports; recommends machine design changes and changes in work procedure; provides technical guidance. NOTE: May have progressed to 26W50 from 26W40, 24P40 (Defense Acquisition Radar Mechanic), 26K40 (Electronic Warfare Equipment Repairman), or 26M40 (Airborne Surveillance Radar Repairman).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuit, and 3 in radar, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits, 3 in tube and transistor circuits, 3 in radar, 3 in maintenance supervision, 3 in human relations, and additional credit in industrial arts education (electronics) and computer science on the basis of institutional evaluation, for a minimum total of 24 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in DC and AC circuits and use of test equipment, 3 in tube and transistor circuits, 3 in radar, 3 in maintenance supervision, 3 in personnel supervision, 3 in human relations, and additional credit in industrial arts education (electronics) and computer science on the basis of institutional evaluation, for a minimum total of 27 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in industrial arts education (electronics), 3 in human relations, 3 in maintenance management, and 6 for field experience in management, for a total of 18 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–26Y–001

SATELLITE COMMUNICATIONS GROUND STATION EQUIPMENT REPAIRMAN

26Y20

26Y40

26Y50

Exhibit Dates: 10/73–Present.

Career Management Field: 32 (Fixed Plant Communications Maintenance).

Description

Summary: Installs, maintains, and operates satellite tracking systems, antenna positioning systems, and communications systems. *Skill Level 20:* Reads wiring, circuit, cable, and schematic diagrams and knows technical terminology related to the specific equipment; uses technical manuals to interpret meter readings and determine the serviceability of equipment; inspects, tests, and adjusts components to specific tolerances, primarily by using system-specific test equipment, as well as voltmeters, ohmmeters, spectrum analyzers, deviation meters, oscilloscopes, signal generators, frequency counters, and power meters; computes voltage, amperage, and resistance factors; repairs, removes, or replaces defective components and parts; identifies electronic jamming and applies appropriate electronic counter-countermeasures. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a shift supervisor, an operations sergeant, or, at a small facility of fewer than 18 persons, a station chief; conducts on-the-job training; makes work assignments; keeps work logs and requisitions supplies; reviews, consolidates, and prepares technical and administrative reports; interprets complex specifications and diagrams for subordinate personnel and diagnoses unusual causes of equipment malfunction. *Skill Level 50:* Able to perform the duties required for Skill Level 40; manages a large satellite ground station.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in electronics. In an electronic technician apprentice training program, 480 clock hours of experience and 60 contact hours of related instruction (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in electronics. In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics, 3 in personnel supervision, and 3 in human relations, for a total of 12 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 40. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in introduction to management. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS–27B–001

LAND COMBAT SUPPORT TEST SPECIALIST

27B20

27B40

Exhibit Dates: 10/73–8/77.

Career Management Field: 27 (Combat Missile Maintenance), *subfield* 272 (Combat Missile Repair).

Description

Summary: Supervises or performs maintenance on the Land Combat Support System (LCSS). *Skill Level 20:* uses basic test equipment such as oscilloscope, VOM, and signal generator; solders on printed circuit boards and discrete wiring; reads and interprets schematic diagrams and logic diagrams; identifies common electronic components; uses proper troubleshooting procedures; loads digital computer tapes; interprets digital printer outputs; performs basic instrument calibrations; aligns optical lens systems, shafts, and gear systems; draws block diagrams of systems; performs quality control inspections. *Skill Level 40:* Able to perform the duties required for Skill Level 20; maintains equipment records; establishes shop priorities and procedures; supervises shop operations.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electronics, 2 in industrial electronics, and 1 in digital theory, and additional credit in basic electronics, industrial electronics, digital theory, digital computer systems, systems maintenance, industrial science, and intermediate algebra on the basis of institutional evaluation, for a minimum total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in introductory electronics, 1 in electronic instrumentation, and 2 in digital computer systems, for a total of 5 semester hours. In an electronic technician apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

Recommendation, Skill Level 40

The recommendation for educational credit is the same as that for Skill Level 20 plus, in the lower-division baccalaureate/associate degree category, 3 semester hours in human relations. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–27B–002

LAND COMBAT SUPPORT SYSTEM TEST SPECIALIST/LANCE REPAIRER

27B10
27B20
27B30
27B40

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–27D–001

LANCE MISSILE SYSTEM REPAIRMAN

27D20
27D40

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 27D was discontinued and its functions were incorporated into MOS 27B, Land Combat Support System Test Specialist/Lance Repairer.)

Career Management Field: 27 (Combat Missile Maintenance), *subfield* 272 (Combat Missile Repair).

Description

Summary: Supervises or performs routine maintenance on Lance missile systems. *Skill Level 20:* Performs field-level maintenance on Lance missile system, missile trainer, nickel-cadmium batteries, and field test equipment; inspects, tests, and adjusts subassemblies to specific functional levels; determines area of malfunction in specific subassemblies (electrical, mechanical, electronic, and electro-mechanical); determines serviceability of subassemblies and removes and replaces subassemblies; performs field calibration and provides technical assistance to supported units. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises field maintenance on Lance missile systems; schedules workloads and establishes priorities; recommends procedures for receipt and storage of items; supervises inspection of items and on-the-job training; establishes and maintains maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, credit in electronics on the basis of institutional evaluation. In an electronic technician apprentice training program, 144 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination. In a construction electrician apprentice training program, 72 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, credit in electronics on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, and additional credit in electronics on the basis of institutional evaluation. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–27E–001

WIRE-GUIDED MISSILE SYSTEMS REPAIRMAN

27E20
27E40

Exhibit Dates: 10/73–8/77.

Career Management Field: 27 (Combat Missile Maintenance), *subfield* 272 (Combat Missile Repair).

Description

Summary: Supervises or performs maintenance on the TOW and Dragon missile systems. *Skill Level 20:* Performs maintenance on wire-guided missile systems, trainers, night sights, battery charges, and system-peculiar test equipment; performs adjustments to isolate malfunctions; diagnoses malfunctions; removes and replaces modules and assemblies. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises inspection and maintenance crews; organizes and conducts on-the-job training; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, and additional credit in basic electronics and direct current on the basis of institutional evaluation. In a construction electrician apprentice training program, 2,000 clock hours of experience and 120 contact hours of related instruction (does not have experience in installing electrical components in buildings being constructed) (2/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in human relations, and additional credit in basic electronics and direct current on the basis of institutional evaluation, for a minimum total of 6 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–27E–002

TOW/DRAGON REPAIRER

27E10
27E20
27E30

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–27F–001

CHAPARRAL/VULCAN AIR DEFENSE SYSTEM REPAIRMAN

27F20
27F40

Exhibit Dates: 10/73–8/77.

Career Management Field: 27 (Combat Missile Maintenance), *subfield* 272 (Combat Missile Repair).

Description

Summary: Performs support maintenance on specialized missile equipment; has a basic knowledge of electronics, including radar and electromechanical applications. *Skill Level 20:* Inspects, tests, adjusts components to specific tolerances, and identifies malfunctions using primarily system-specific test equipment; repairs, removes, or replaces defective components and parts; performs initial and final check-out and inspection of components and parts; performs initial and final check-out and inspection of system items; performs quality control measures; performs calibration on test sets peculiar to Chaparral and Vulcan equipment; prepares maintenance and supply forms. Duties required for maintenance of the Chaparral missile system involve largely modular repair, requiring the ability to read block diagrams; duties required for maintenance of the Vulcan electronic assemblies and radar involve specific component repair, requiring substantially more electronic theory and the ability to read schematic diagrams. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a technical inspector or foreman, supervising and appraising the performance of 9 to 16 persons; establishes workloads and repair priorities; implements quality control measures; conducts on-the-job training, demonstrating proper maintenance and troubleshooting techniques.

Recommendation, Skill Level 20

No recommendation because of the limited and military nature of the skills, competencies, and knowledge. Advanced standing in an electronic technician apprentice training program only on the basis of employer or trade association performance examination because of the limited and military nature of the skills, competencies, and knowledge (3/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in personnel administration, and additional credit for field experience in education on the basis of institutional evaluation. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (3/75).

MOS–27F–002

VULCAN REPAIRER

27F10
27F20
27F30

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–27G–001

REDEYE MISSILE SYSTEM REPAIRMAN

27G20
27G40

Exhibit Dates: 10/73–8/77.

Career Management Field: 27 (Combat Missile Maintenance), *subfield* 272 (Combat Missile Repair).

Description

Summary: Supervises or performs field maintenance on Redeye missile system, trainer, and associated equipment. *Skill Level 20:* Inspects, tests, and adjusts assemblies and subassemblies to specific operational levels; determines malfunctions in electronic, electrical, and cryogenic assemblies, subassemblies, modules, and circuit elements; removes and replaces defective components and parts; installs equipment modifications; performs initial and final checkouts and inspections; performs "C" level calibration on test equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the maintenance on the Redeye missile system, trainer, contact support test set, and associated equipment; schedules workloads; establishes priorities; recommends procedures for receiving, storing, inspecting, testing, and repairing equipment; implements quality control measures; supervises maintenance and inspection teams; organizes and conducts on-the-job training; demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate de-

gree category, 3 semester hours in basic electronics, and additional credit in basic electronics on the basis of institutional evaluation. In an electronic technician (sound and manufacturing) apprentice training program or in a construction electrician apprentice training program, 72 contact hours of related instruction; clock hours of experience on the basis of employer or trade association performance examination (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electronics, and additional credit in basic electronics on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in basic electronics, and additional credit in basic electronics on the basis of institutional examination, for a minimum total of 6 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/76).

MOS–27G–003

CHAPARRAL/REDEYE REPAIRER

27G10
27G20
27G30
27G40

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–27H–001

SHILLELAGH MISSILE SYSTEM REPAIRMAN

27H20
27H40

Exhibit Dates: 10/73–8/77.

Career Management Field: 27 (Combat Missile Maintenance), *subfield* 272 (Combat Missile Repair).

Description

Summary: Supervises or performs maintenance on the Shillelagh missile system. *Skill Level 20:* Inspects, tests, and adjusts Shillelagh missile system by using a method of programmed test equipment and basic electronic theory; replaces faulty cables and assemblies; prepares maintenance and supply forms. *Skill Level 40:* Able to perform the duties required for Skill Level 20; recommends procedures for receiving, storing, inspecting, testing, and repairing equipment and components; implements quality control measures; supervises inspection and maintenance teams; organizes and conducts on-the-job training; demonstrates proper maintenance and troubleshooting techniques.

Recommendation, Skill Level 20

In the vocational certificate category, credit in electronics on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, and additional credit in electronics and direct current on the basis of institutional evaluation (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, credit in electronics on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in human relations, and additional credit in electronics and direct current on the basis of institutional evaluation (2/76).

MOS–27H–003

SHILLELAGH REPAIRER

27H10
27H20
27H30

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–27Z–001

LCSS MISSILE MAINTENANCE CHIEF

27Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 27 (Combat Missile Maintenance), *subfield* 272 (Combat Missile Repair).

Description

Coordinates support maintenance of the Land Combat Support System (LCSS), including the Lance, TOW, Dragon, Chaparral, Shillelagh, and Redeye missile systems; Vulcan weapon system electronics; Forward Area Alerting Radar; and system-associated trainers and test equipment; helps determine and administers policy; assists superiors in planning and accomplishing training; advises superiors on all matters concerning enlisted personnel; may serve as a chief instructor in a training facility. NOTE: May have progressed to 27Z50 from 27B40 (Land Combat Support System Test Specialist), 27D40 (Lance Missile System Repairman), 27E40 (Wire-Guided Missile Systems Repairman), 27F40 (Chaparral/Vulcan Defense Systems Repairman), 27G40 (Redeye Missile System Repairman), 27H40 (Shillelagh Missile System Repairman), 24M40 (Vulcan System Mechanic), or 24N40 (Chaparral System Mechanic).

Recommendation

In the lower-division baccalaureate/associate degree category, credit in electronics on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in human relations, 6 for field experience in management, and additional credit in industrial arts education on the basis of institutional evaluation, for a minimum total of 15 semester hours; *if the duty assignment was chief instructor in a formal training facility*, 3 additional semester hours for an internship in education, for a minimum total of 18 semester hours (2/76).

MOS–28M–001

ANTI-BALLISTIC MISSILE MAINTENANCE SPECIALIST

28M10
28M20
28M40
28M50

Exhibit Dates: 10/73–Present.

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 237 (Ballistic Missile Defense).

Description

Summary: Supervises or performs on-line maintenance on the SAFEGUARD missiles and their associated equipment. *Skill Level 10:* Operates and performs preventive maintenance on missile service and transporter vehicles, test equipment, associated ground support, and handling equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; tests and checks guidance control and warhead sections to verify presence and integrity of circuitry; checks and tests missile and launch equipment and isolates malfunctions; replaces defective missile stages and sections and launch equipment components; determines the cause and location of a malfunction of the environmental system in a cell or launch preparation equipment compartment in the event of a minor alarm; removes cover, de-energizes electrical power, and performs minor corrective action; prepares maintenance and supply records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises on-line maintenance of the missile and associated equipment; schedules and assigns work; corrects faulty work procedures by instruction and demonstration; enforces safety regulations; diagnoses and analyzes complex malfunctions; conducts on-the-job training programs; prepares technical reports; establishes maintenance controls and performance standards. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as the principle maintenance supervisor in a multi-shift operation performing on-line missile maintenance.

Recommendation, Skill Level 10

In the vocational certificate category, credit in basic electricity laboratory and systems maintenance on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in basic electricity laboratory and 2 in systems maintenance (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in basic electricity laboratory and 2 in systems maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 for field experience in management (6/76).

Recommendation, Skill Level 50

In the vocational certificate category, 2 semester hours in basic electricity laboratory and 2 in systems maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 6 for field experience in management (6/76).

MOS–31B–001

FIELD COMMUNICATIONS-ELECTRONICS EQUIPMENT MECHANIC
(FIELD RADIO MECHANIC)

31B20
31B30

Exhibit Dates: 10/73–Present.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 311 (Field Communications Maintenance).

Description

Summary: Installs, operates, and performs preventive maintenance on electronic communications systems that include communications security equipment, common and special test, calibration, and diagnostic equipment, as well as selected target surveillance equipment. *Skill Level 20:* Inspects equipment for serviceability; cleans equipment covers and cases; replaces fuses, lamps, and batteries; reads and applies circuit and schematic diagrams; performs troubleshooting procedures at the circuit level to localize and diagnose causes of equipment malfunction; maintains equipment and supply records, interprets technical reports and manuals; uses multimeter, oscilloscope, and signal injection and tracing equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs preventive maintenance and diagnostic troubleshooting procedures and repair on special purpose digital computer and associated equipment, including paper tape punches and readers.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in electronic circuits and devices (solid-state and vacuum tubes), and 3 in electronic communications systems, for a total of 12 semester hours (3/76).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 20, plus 3 additional semester hours in introduction to digital computer circuits, for a total of 15 semester hours (3/76).

MOS–31D–001

PERSHING COMMUNICATIONS SPECIALIST

31D20

31D40

Exhibit Dates: 10/73–Present.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 313 (Area Communication).

Description

Summary: Installs, operates, and performs routine maintenance on tropospheric scatter radio and associated multiplexing equipment. *Skill Level 20:* Positions antennas, interconnects equipment, and makes tuning adjustments on receivers and transmitters; uses compass; reads specialized metering scales on equipment; keeps equipment log books. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises and organizes tropospheric scatter radio operations, maintenance, and security functions; corrects faulty work practices by instruction and demonstration of proper techniques; requests supplies and prepares technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic communications (practices and procedures) and 1 in maintenance (radio or equipment) (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in electronic communications (practices and procedures) and 2 in maintenance (electronic or equipment). In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic communications (practices and procedures), 3 in human relations, 2 in industrial maintenance supervision, and 1 in technical writing, for a total of 9 semester hours. In the upper-division baccalaureate category, 2 semester hours for field experience in management (3/76).

MOS–31E–001

FIELD RADIO REPAIRMAN

31E20

31E40

Exhibit Dates: 10/73–Present.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 312 (Tactical Electronics Maintenance).

Description

Summary: Inspects, tests, and performs maintenance on FM radios, single side band radios, and radio teletypewriter equipment. *Skill Level 20:* Performs testing and maintenance procedures; dismantles components, traces continuity, locates malfunctioning parts, and repairs faulty circuitry parts; uses multimeters, oscilloscopes, signal generators, and other equipment to locate and repair malfunctioning circuits; computes voltage, current, resistance, and power using Ohm's Law and Watt's Law functions. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises field radio equipment maintenance programs and instructs in maintenance procedures and techniques; diagnoses and determines causes of unusual and complex cases of equipment malfunction or non-function; interprets complex circuit and schematic diagrams; requisitions supplies; prepares, reviews, and consolidates technical and administrative reports; normally supervises 8–15 persons. NOTE: May have progressed to 31E40 from 31E20, 31B20, or 31B30 (field communications electronics equipment mechanic).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in communications electronics, and 3 in electronic components (solid-state and vacuum tubes), for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in communications electronics, and 2 in electronic devices (solid-state and vacuum tubes), for a total of 11 semester hours. Advanced standing in a radio-television repairman apprentice training program on the basis of employer or trade association performance examination (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20 plus 2 additional semester hours in systems maintenance and repair. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in communications electronics, 3 in electronic devices (solid-state and vacuum tubes), 2 in systems maintenance and repair, 3 in human relations, and 3 in introduction to management, for a total of 20 semester hours. In the upper-division baccalaureate category, 3 semester hours in maintenance management. Advanced standing in a radio-television apprentice training program on the basis of employer or trade association performance examination (3/76).

MOS–31G–001

TACTICAL COMMUNICATIONS CHIEF

31G40

31G50

Exhibit Dates: 10/73–Present.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 311 (Field Communications Maintenance).

Description

Summary: Supervises the installation, operation, and maintenance of communications systems in infantry, armor, artillery, or other units employing similar methods of communication. *Skill Level 40:* Supervises the installation, operation, and routine maintenance of wire communications systems, FM radio nets, air-to-ground radio sets, and radio teletype sets; conducts training programs for unit personnel in communications procedures, operations, and maintenance practices; assists in selecting locations for communications facilities; assigns duties and coordinates the activities of various communications personnel. NOTE: May have progressed to 31G40 from 31B20, 31B30 (Field Communications Electronics Equipment Mechanic), 31D40 (Pershing Communications Specialist), 31E20 (Field Radio Repairman), 36K40 (Tactical Wire Operations Specialist), 05B40 (Radio Operator), 05C40, 05C50 (Radio Teletype Operator), 05E40 (Voice Radio Operator), 05F40 (Radio Teletypewriter Operator, Non-Morse). *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises and coordinates communications activities; administers maintenance records and prepares reports; supervises supply operations; determines unusual causes of defective equipment. NOTE: May have progressed to 31G50 from 31G40, 31E40 (Field Radio Repairman), 05B40 (Radio Operator), 05C40, 05C50 (Radio Teletype Operator), 05E40 (Voice Radio Operator), or 05F40 (Radio Teletypewriter Operator, Non-Morse).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in introduction to electricity (DC), 3 in introduction to electronic communications, and 3 in map reading, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electricity (DC), 3 in introduction to electronic communications systems, 3 in map reading, 3 in human relations, 3 in introduction to management, and 3 in personnel supervision, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in a technical elective, and 3 in industrial arts, for a total of 9 semester hours (3/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 for an internship in education, 3 in a technical elective, and 3 in industrial arts, for a total of 15 semester hours (3/76).

MOS–31J–001

TELETYPEWRITER REPAIRMAN

31J20

31J40

31J50

Exhibit Dates: 10/73–2/74.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 312 (Tactical Electronics Maintenance).

Description

Summary: Performs installation, maintenance, and repair of electromechanical and electronic teletypewriter and facsimile equipment. *Skill Level 20:* Installs, maintains, and repairs electrical and mechanical office machines; uses basic hand tools; reads elementary electrical and electronic diagrams. *Skill Level 40:* Able to perform the duties required for Skill Level 20; able to diagnose equipment malfunctions and repair requirements; conducts on-the-job training; organizes and supervises maintenance and inspection teams; requisitions and stocks supplies and repair parts; reviews and prepares technical and administrative reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as foreman, establishing workloads and maintenance priorities and conducting on-the-job training; implements quality control measures.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in industrial laboratory tool use and care and 1 in basic mathematics (3/75).

Recommendation, Skill Level 40

In the vocational certificate category, 1 semester hour in industrial laboratory tool use and care and 1 in basic mathematics. In the lower-division baccalaureate/associate degree category, 1 semester hour in industrial laboratory tool use and care, 1 in basic mathematics, and additional credit for field experience in personnel supervision, education, and industrial arts on the basis of institutional evaluation (3/75).

Recommendation, Skill Level 50

In the vocational certificate category, 1 semester hour in industrial laboratory tool use and care and 1 in basic mathematics. In the lower-division baccalaureate/associate degree category, 1 semester hour in industrial laboratory tool use and care, 1 in basic mathematics, and additional credit for field experience in personnel supervision, office management, education, and industrial arts on the basis of institutional evaluation (3/75).

MOS–31J–002

TELETYPEWRITER REPAIRMAN

31J20

31J40

Exhibit Dates: 3/74–Present.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 312 (Tactical Electronics Maintenance).

Description

Summary: Supervises and performs maintenance on electromechanical and electronic teletypewriter and facsimile equipment. *Skill Level 20:* Installs, tests, adjust, overhauls, and repairs electromechanical and electronic teletypewriters and facsimile equipment; performs detailed testing to diagnose equipment malfunctions, using specialized tools and testing equipment; replaces faulty components, subassemblies, and parts; adjusts electrical, electronic, and mechanical components in accordance with applicable technical publications; test-operates repaired equipment to assure conformance with technical specifications; maintains tools and test equipment; reads schematic and wiring diagrams pertaining to teletypewriters and facsimile equipment; uses conventional and specialized soldering techniques; prepares and keeps maintenance forms and records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the maintenance of electromechanical and electronic teletypewriters and facsimile equipment; plans and schedules maintenance; maintains equipment forms and records; requisitions spare parts, supplies, and technical manuals; reviews, consolidates, and prepares technical and administrative reports pertaining to equipment and equipment maintenance activities; conducts on-the-job training; demonstrates correct maintenance techniques; diagnoses difficult and unusual equipment malfunctions; interprets complex specifications and circuit diagrams.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in basic electricity, 2 in office machine repair, 1 in electromechanical systems, 1 in use of technical publications, and 1 in care and use of tools, for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity. In an electronic technician apprentice training program, advanced standing on the basis of employer or trade association performance examination (5/77).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electricity, 3 in office machine repair, 1 in electromechanical systems, 1 in use of technical publications, 1 in care and use of tools, and 1 in blueprint reading, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in personnel supervision, 3 in human relations, 3 in record keeping, and 2 in technical report writing, for a total of 14 semester hours. In an electronic technician apprentice training program, advanced standing on the basis of employer or trade association performance examination (5/77).

MOS–31L–001

MULTICHANNEL COMMUNICATIONS EQUIPMENT REPAIRMAN (FIELD RADIO RELAY EQUIPMENT REPAIRMAN)

31L20

31L40

Exhibit Dates: 10/73–Present.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 312 (Tactical Electronics Maintenance).

Description

Summary: Inspects, tests, and performs maintenance on multichannel communication equipment including radio sets, carrier terminals, multiplexers, combiners, repeaters, and frequency division plus code modulated systems. *Skill Level 20:* Performs periodic and emergency repairs on multichannel communication equipment using electronic test equipment; tests components, integrated circuits, modules, and printed circuits to localize malfunctions; repairs and replaces faulty items; adjusts unit for proper functioning; interprets schematics and technical literature. NOTE: May have progressed to 31L20 from 31M20 (Multichannel Communications Equipment Operator). *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises 4 or more multichannel communications equipment repairmen; instructs subordinates in proper repair and maintenance techniques; diagnoses and determines causes of unusual cases of equipment malfunction and non-function.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in solid state devices, 3 in basic digital computer circuits, 3 in communications systems, and 3 in electronic test equipment and instrumentation, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in solid state devices, 3 in basic digital computer circuits, and 3 in communications circuits, for a total of 15 semester hours. In an electronic technician apprentice training program, 1,500 clock hours of experience and 100 contact hours of related instruction (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 3 in solid state devices, 3 in basic digital computer circuits, 3 in communications systems, 3 in communications circuits, and 3 in electronic test equipment and instrumentation, for a total of 21 semester hours. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that in the vocational certificate category plus 3 additional semester hours in human relations and 3 in introduction to management. In an electronic technician apprentice training program, 2,500 clock hours of experience and 180 contact hours of related instruction on the basis of employer or trade association performance examination (3/76).

MOS–31M–001

RADIO RELAY AND CARRIER ATTENDANT

31M20

31M40

Exhibit Dates: 10/73–2/74.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 313 (Area Communication).

Description

Summary: Installs and performs continuous maintenance on field radio relay equipment. *Skill Level 20:* Installs, operates, and maintains fixed radio relay equipment, including transmitters, receivers, and other electronic devices. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a foreman and inspector; conducts on-the-job training.

Recommendation, Skill Level 20

No credit recommendation because of the limited technical nature of the skills, competencies, and knowledge. Advanced standing in an apprentice training program in electronics or communications technology only on the basis of employer or trade association performance examination because of the limited technical nature of the skills, competencies, and knowledge (3/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, credit for field experience in personnel supervision and education on the basis of institutional evaluation. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (3/75).

MOS–31M–002

MULTICHANNEL COMMUNICATIONS EQUIPMENT OPERATOR

31M20

31M40

Exhibit Dates: 3/74–Present.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 313 (Area Communications).

Description

Summary: Installs, operates, and maintains multichannel communications equipment, including transmitters, receivers, carrier terminals, repeaters, and associated multiplexing and communications devices. *Skill Level 20:* Performs minor electrical connections and mechanical adjustments on specific communications equipment and electrical generators; starts and adjusts power units to assure delivery of power at prescribed readings; checks equipment to determine readiness for operation; adjusts equipment to maintain efficiency circuits and operation of equipment at prescribed frequencies; maintains technical and administrative records pertaining to station operation; operates and performs preventive maintenance on light wheeled vehicles. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises installation, maintenance, and inspection of radio relay communications equipment; makes personnel assignments; conducts on-the-job training; demonstrates and instructs in proper operating techniques; requisitions supplies; prepares, reviews, and consolidates technical and administrative reports; maintains supply and maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in introduction to radio-telecommunications and additional credit in mechanical maintenance on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 1 semester hour in communications systems and additional credit in mechanical maintenance on the basis of institutional evaluation. Advanced standing in an apprentice training program in electronics or communications technology on the basis of employer or trade association performance examination (5/77).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in introduction to radio-telecommunications and 1 in communications techniques, and additional credit in mechanical maintenance on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 2 in personnel supervision, 2 in communications systems, 2 in maintenance management, and 1 in communications techniques, and additional credit in mechanical maintenance on the basis of institutional evaluation, for a minimum total of 10 semester hours. Advanced standing in an apprentice training program in electronics or communications technology on the basis of employer or trade association performance examination (5/77).

MOS–31N–001

TACTICAL CIRCUIT CONTROLLER

31N20

31N40

Exhibit Dates: 10/73–Present.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 313 (Area Communication).

Description

Summary: Supervises and operates communications patching panels to establish interconnections between communications facilities. *Skill Level 20:* Terminates and patches circuits in accordance with patching orders; designates cable pairs to be used between loop and terminal; assists in testing local wire, radio, data, and teletypewriter circuits; operates test equipment, including multimeter, to identify circuit and equipment faults; operates telephone switchboard and teletypewriter components of patching panels; interprets system maps, overlays, and circuit diagrams; knows first aid procedures for electrical shock. NOTE: May have progressed to 31N20 from 31M20 (Multichannel Communications Equipment Operator). *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises circuit activities in a switching center or serves in a headquarters that supervises circuit control functions; supervises the installation and operation of systems control facilities; serves as a central office supervisor analyzing telephone traffic and preparing routing, rerouting, and alternate routing orders and pertinent diagrams, charts, and records.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity (DC) (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in introduction to electricity. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electricity, 3 in introduction to management, and 3 in human relations, for a total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/76).

MOS–31S–001

FIELD GENERAL COMSEC REPAIRMAN

31S20

31S30

Exhibit Dates: 10/73–Present.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 314 (COMSEC Maintenance).

Description

Summary: Performs maintenance on communications security (COMSEC) equipment, including inspection, testing, diagnosis and isolation of defective components or modules, modification, repair, and calibration. *Skill Level 20:* Inspects, tests, and performs maintenance on communications security and compatible ancillary equipment and assemblies; uses associated special and common tools for tests, calibration, and diagnostic functions; locates and changes defective circuit modules; maintains equipment maintenance records and submits appropriate maintenance reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; troubleshoots equipment to locate defective component; installs and tests modifications to equipment; uses oscilloscope, multimeter, and specialized test equipment; uses Ohm's Law; reads schematic diagrams and logic diagrams; demonstrates correct and acceptable soldering techniques for miniaturized electronic equipment to include the application of printed circuit repair techniques.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC) and 1 in equipment maintenance or maintenance procedures. The skills, competencies, and knowledge are too limited and specialized to apply to an apprentice training program (3/76).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC), 3 in basic electronics (AC), 2 in electronic devices (solid-state and vacuum tubes), and 2 in basic digital computer circuits, for a total of 10 semester hours. In an electronic technician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction on the basis of employer or trade association performance examination (3/76).

MOS–31T–001

FIELD SYSTEMS COMSEC REPAIRMAN

31T20

31T30

Exhibit Dates: 10/73–Present.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 314 (COMSEC Maintenance).

Description

Summary: Inspects, tests, and performs maintenance on communications security (COMSEC) equipment, including calibration, modification, and diagnosis of defects. *Skill Level 20:* Maintains electronic communications equipment in serviceable condition, including testing and diagnosing to isolate malfunctions and replace modules; uses multimeter and oscilloscope; maintains equipment maintenance records and submits appropriate maintenance reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; inspects, tests, and repairs communications security equipment; utilizes complex schematic, logic, and wiring diagrams and technical publications; repairs miniaturized electronic equipment; uses Ohm's Law, oscilloscope, multimeter, and specialized test equipment.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics (AC), 3 in basic electricity (DC), and 3 in control circuits (alarm, timing, synchronizing, and power), for a total of 9 semester hours. Advanced standing in an electronic technician apprentice training program on the basis of employer or trade association performance examination (3/76).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics (AC), 3 in basic electricity (DC), 3 in communications circuits, 3 in basic solid state devices, 3 in basic solid state circuits, and 3 in electronic test equipment and instrumentation, for a total of 18 semester hours. In an electronic technician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (3/76).

MOS–31U–001

TACTICAL COMSEC MAINTENANCE CHIEF

31U40

31U50

Exhibit Dates: 10/73–Present.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 314 (COMSEC Maintenance).

Description

Summary: Supervises and coordinates installation, maintenance, repair, modifications, overhaul, and inspection of communications security (COMSEC) systems. NOTE: Able to perform the duties of 31S30 (field general COMSEC repairman) or 31T30 (field systems COMSEC repairman). *Skill Level 40:* Supervises 6–12 subordinate technicians in the installation, maintenance, and repair of electronic communications equipment; supervises the safeguarding of classified information and material, signal security practices, and safety precautions; supervises the management of equipment maintenance records and supply inventory; provides subordinates with technical guidance, including the use of the oscilloscope and multimeter; diagnoses and evaluates complex causes for defective equipment; coordinates workflow; prepares technical reports and correspondence; develops test procedures for subordinates to use in determining the extent of repairs required and adequacy of repairs completed. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as a maintenance chief; instructs Skill Level 40 supervisors in the application of maintenance procedures; evaluates the efficiency and effectiveness of maintenance operations and training procedures; supervises the modification of equipment and provides on-the-job training in the maintenance of modified equipment.

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electronics (AC), 3 in basic electricity (DC), 3 in communications circuits, 3 in basic solid-state devices, 3 in basic solid-state circuits, and 3 in electronic test equipment and instrumentation, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that in the vocational certificate category, plus 2 semester hours in personnel supervision, 3 in introduction to management, 3 in human relations, and 3 in maintenance shop operation, for a total of 29 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 for a technical elective, and 3 in industrial arts, for a total of 9 semester hours. Advanced standing in an electronic technician apprentice training program on the basis of employer or trade association performance examination (3/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 for an internship in education, 3 for a technical elective, and 3 in industrial arts, for a total of 15 semester hours. Advanced standing in an electronic technician apprentice training program on the basis of employer or trade association performance examination (3/76).

MOS–31W–001

TACTICAL ELECTRONICS MAINTENANCE CHIEF

31W40

31W50

Exhibit Dates: 10/73–Present.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 312 (Tactical Electronics Maintenance).

Description

Summary: Supervises maintenance (rebuilding and repair to the component level) of electronic communications equipment. *Skill Level 40:* Organizes, supervises, and inspects activities of the maintenance shop; prepares lesson plans and instructs subordinate repair specialists in on-the-job training; reviews, consolidates, and prepares technical reports pertaining to electronic communications equipment maintenance activities; establishes work priorities; supervises equipment inspection and stor-

age; diagnoses and determines causes of unusual equipment malfunction; interprets complex specifications and circuit, schematic, and wiring diagrams; explains complex concepts and demonstrates correct repair procedures and utilization of special test equipment and tools. NOTE: May have progressed to 31W40 from 31L40 (Multichannel Communications Equipment Repairman), 31B20, 31B30 (Field Communications-Electronics Equipment Mechanic), or 36L30 (Electronic Switching Systems Repairman). *Skill Level 50:* Able to perform the duties required for Skill Level 40; as the principal noncommissioned officer, supervises 30 or more persons (and, as a maintenance chief at Grade E–9, supervises more than 50 persons); supervises and assists in making complex modifications to electronic communications equipment; assists superiors in the continuous appraisal of electronic communications equipment maintenance, operations, and training situations; provides technical guidance to subordinate maintenance personnel; as first sergeant of a company (approximately 200 enlisted personnel), serves as an administrator, personnel director, training director, and inspector. NOTE: May have progressed to 31W50 from 31W40, 31E40 (Field Radio Repairman), 31J40 (Teletypewriter Repairman), 26L40 (Tactical Microwave Systems Repairman), or 31U50 (Tactical COMSEC Maintenance Chief).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in basic electronics (AC/DC) theory and laboratory, 1 in elementary algebra, 3 in amplifier circuits and devices, 6 in radio frequency circuit functions and analysis, 6 in electronic communications systems, and 2 in instrument applications, for a total of 24 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in DC circuit theory and laboratory, 2 in AC circuit theory and laboratory, 2 in electronic devices, 3 in electronic communication systems, 3 in systems maintenance and repair, 3 in basic electronics with laboratory, 3 in personnel supervision, and 3 in maintenance shop operation, for a total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in introduction to management, 3 for a technical elective, and 3 in industrial arts, for a total of 12 semester hours. Advanced standing in an electronic technician apprentice training program on the basis of employer or trade association performance examination (3/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 for an internship in education, 3 in introduction to management, 3 in maintenance management, 3 for a technical elective, and 3 in industrial arts, for a minimum total of 21 semester hours; *if the duty assignment was first sergeant of a company at Grade E–8 or maintenance chief at Grade E–9,* 3 additional semester hours in personnel management, for a total of 24 semester hours. In the graduate category, credit in personnel management on the basis of institutional evaluation. Advanced standing in an electronic technician apprentice training program on the basis of employer or trade association performance examination (3/76).

MOS–31Z–001

AREA COMMUNICATIONS CHIEF

31Z40

31Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 31 (Field and Area Communications Maintenance), *subfield* 313 (Area Communication).

Description

Summary: Supervises, coordinates, and directs the installation, operation, and maintenance of integrated electronic communications systems. *Skill Level 40:* Supervises and coordinates the installation, operation, and maintenance of integrated electronic communications center facilities, including wire, telephone central, carrier, radio relay, message center, and cryptographic activities; determines location of facilities, capabilities of equipment within the system, and appropriate use of circuits, lines, and equipment; conducts training in all phases of operating the communications system; collects, analyzes, and distributes material pertaining to signal intelligence; assists officer in the appraisal of general signal intelligence and operations. NOTE: May have progressed to 31Z40 from 31E20 (Field Radio Repairman), 31D40 (Pershing Communications Specialist), 31M40 (Multichannel Communications Equipment Operator), 31N40 (Tactical Circuit Controller), or 72E40 (Telecommunications Center Specialist). *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises and directs the installation, operation, and maintenance of major integrated electronic communications systems; prepares orders, line route maps, circuit and traffic diagrams, and related technical reports and materials; assists in planning, utilization of resources, operation of communications system, and maintenance support for the entire system; assigns duties and coordinates the activities of administrative, operating, and maintenance personnel in the employment of wire, radio relay, radio teletype, telephone, and message handling facilities; determines the effectiveness of system operation, adequacy of communication plant, and the need for additional equipment to meet unusual or added traffic demands; recommends changes in location, types or quantities of equipment, alternate routes, and establishment of switching centers; may serve as the first sergeant of a company (at grade E–8), supervising approximately 200 persons. NOTE: May have progressed to 31Z50 from 31Z40, 31M40 (Multichannel Communications Equipment Operator), 31N40 (Tactical Circuit Controller), 31G50 (Tactical Communications Chief), 31J40 (Teletypewriter Repairman), or 31U50 (Tactical COMSEC Maintenance Chief).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in maintenance shop operation, 3 in technical writing, 3 in map reading, and 3 in industrial safety, for a total of 15 semester hours. NOTE: Credit recommendations for technical expertise in the area of electronic communications may be obtained through the exhibits for previously held MOS's. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 for field experience in management, 3 in a technical elective, 3 in industrial arts, and 3 for an internship in education, for a total of 15 semester hours. There is no recommendation for advanced standing in an apprentice training program because the skills are administrative and supervisory in nature (3/76).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 6 for field experience in management, 3 in a technical elective, 3 in industrial arts, 3 for an internship in education, 3 in human relations, and 3 in industrial management, for a minimum total of 24 semester hours; *if the duty assignment was first sergeant of a company or chief signal NCO,* 3 additional semester hours in personnel management, for a total of 27 semester hours; *if the duty assignment was sergeant major,* 3 additional semester hours for field experience in management as well as 3 in personnel management, for a total of 30 semester hours. There is no recommendation for advanced standing in an apprentice training program because the skills are administrative and supervisory in nature (3/76).

MOS–32D–001

FIXED STATION TECHNICAL CONTROLLER

32D20

32D40

Exhibit Dates: 10/73–Present.

Career Management Field: 32 (Fixed Plant Communications Maintenance).

Description

Summary: Supervises or insures fidelity and continuity of Army communications circuits. *Skill Level 20:* Prevents and corrects conditions which disrupt fidelity, continuity, and operation of communications circuits; tests communications circuits and teletype equipment; uses signal generators, meters, distrotion analyzers, and monitoring aids; interprets diagrams to determine mode of keying and levels at various points along transmission paths; applies techniques to counteract continuity and fidelity jamming by hostile forces; keeps logs and records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises personnel and equipment; maintains system network operation; prepares technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC current, test equipment, and diagrams), 3 in basic electronics (AC current and test equipment), 3 in electronic circuits, and 3 in electronic communications principles, for a total of 12 semester hours. In an electronic technician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, 3 in basic electricity (DC current, test equipment, and diagrams), 3 in basic electronics (AC current and test equipment), 3 in electronic circuits, and 3 in electronic communications principles, for a total of 18 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (3/76).

MOS–32E–001

FIXED PLANT CARRIER REPAIRMAN

32E20

32E40

Exhibit Dates: 10/73–Present.

Career Management Field: 32 (Fixed Plant Communications Maintenance).

Description

Summary: Supervises and performs installation, operation, or maintenance on fixed station carrier, control terminal, multiplex, and submarine cable terminal equipment. *Skill Level 20:* Makes minor adjustments on equipment; replaces malfunctioning equipment; advises superiors of equipment failure or malfunction; keeps technical and administrative records; performs emergency testing and inspects parts; interprets schematics and diagrams; replaces and repairs electric motors and adjusts relays, dials, and switches. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises technical operation and maintenance of the equipment; prepares technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in direct current, 3 in alternating current, 3 in communications systems, and 2 in solid state devices, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 11 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, 3 in direct current, 3 in alternating current, 3 in communications systems, and 2 in solid state devices, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 17 semester hours (3/76).

MOS–32F–001

FIXED CIPHONY REPAIRMAN

32F20

32F40

Exhibit Dates: 10/73–Present.

Career Management Field: 32 (Fixed Plant Communications Maintenance).

Description

Summary: Supervises or performs maintenance on fixed ciphony communications security (COMSEC) equipment. *Skill Level 20:* Performs all level of maintenance on fixed ciphony equipment; adjusts, repairs, and overhauls equipment; isolates and diagnoses malfunctions using electrical and electronic theory; removes, examines, and replaces faulty components and parts; traces circuit continuity; reads schematic and wiring diagrams; keeps maintenance logs and records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises installation and rapair of fixed COMSEC equipment; assigns duties; advises, instructs, and assists subordinates in difficult phases of diagnoses, requisitions supplies and prepares administrative reports; supervises subordinate personnel in the handling of classified information and materials.

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in commercial and residential wiring, 2 in digital circuit theory, 2 in AC and DC theory, 2 in electronic test equipment, and 2 in advanced circuit theory, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in basic electronics, 2 in commercial and residential wiring, 2 in electronic instrumentation, and 1 in introduction to digital circuits, for a total of 7 semester hours. Advanced standing in an electronic technician apprentice training program only on the basis of employer or trade association performance examination because of the military nature of the skills, competencies, and knowledge (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 4 semester hours in industrial and residential wiring, 3 in basic electronics, 3 in digital circuits, 2 in electronic instrumentation, 2 in electromechanical systems, 3 in human relations, 2 in personnel supervision, and 2 in maintenance supervision, for a total of 21 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS–32G–001

FIXED CRYPTOGRAPHIC EQUIPMENT REPAIRMAN

32G20

32G40

Exhibit Dates: 10/73–Present.

Career Management Field: 32 (Fixed Plant Communications Maintenance).

Description

Summary: Supervises or performs maintenance on fixed cryptographic systems communications security (COMSEC) equipment. *Skill Level 20:* Performs all levels of maintenance on fixed systems digital communications security equipment; adjusts, repairs, and overhauls equipment; applies electronic theory and analysis techniques in diagnosis and isolation of malfunctions; removes, examines, and replaces faulty components and parts; traces circuit continuity; properly uses, calibrates, and cares for tools and test equipment; keeps maintenance logs and records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises installation and maintenance of fixed system COMSEC equipment; assigns duties; advises, instructs, and assists subordinates in difficult phases of diagnoses; prepares technical and administrative reports

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in commercial and residential wiring, 2 in digital circuit fundamentals, 2 in DC and AC theory, 2 in electronic test equipment, and 2 in advanced circuit theory, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in digital circuit fundamentals, 2 in basic electronics, 2 in commercial and residential wiring, and 2 in electronic instrumentation, for a total of 9 semester hours. Advanced standing in an electronic technician apprentice training program only on the basis of employee or trade association performance examination because of the military nature of the skills, competencies, and knowledge (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 5 semester hours in digital computer circuits, 4 in industrial and residential wiring, 3 in basic electronics, 2 in electronic instrumentation, 2 in electromechanical systems, 3 in human relations, 2 in personnel supervision, and 2 in maintenance supervision, for a total of 23 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS–32H–001

FIXED STATION RADIO REPAIRMAN

32H20

32H40

Exhibit Dates: 10/73–Present.

Career Management Field: 32 (Fixed Plant Communications Maintenance).

Description

Summary: Supervises and performs installation, operation, and maintenance on fixed station radio equipment. *Skill Level 20:* Installs, operates, and repairs fixed station radio receiver and transmitter equipment; makes frequency and calibration adjustments; replaces defective radio equipment with operational units; interprets circuit, schematic, and cable diagrams; maintains records on equipment status; uses related equipment, such as antennas and cables; inspects and tests equipment for malfunction; locates faulty components and replaces them with operational components or parts; employs radio troubleshooting techniques with electronic test equipment; operates associated communications equipment, such as carrier and teletypewriters; applies safety precautions pertaining to high voltage. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises installation, maintenance, and operation of fixed station radio equipment; assigns personnel to duties; advises and instructs personnel; diagnoses and determines causes of equipment malfunction; writes technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in electronics fundamentals (direct current), 3 in electronics fundamentals (alternation current), 3 in electronic circuits, and 3 in electronic devices (solid-state and vacuum tube) for a total of 12 semester hours. In an electronic technician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in electronics fundamentals (direct current), 3 in electronics fundamentals (alternation current), 3 in radio transmitters and receivers system theory, 3 in electronic circuits, and 3 in electronic devices (solid-state and vacuum tube), for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics fundamentals (direct current), 3 in electronics fundamentals (alternating current), 3 in radio transmitters and receivers system theory, 3 in electronic circuits, 3 in electronic devices (solid-state and vacuum tube), 3 in human relations, and 3 in personnel supervision, for a total of 21 semester hours. In an electronic technician apprentice training program 1,000 clock hours of experience and 72 contact hours of related instruction (3/76).

MOS–32Z–001

FIXED STATION CHIEF

32Z40

Exhibit Dates: 10/73–[illegible]

Career Management Field: 32 (Fixed Plant Communications Maintenance).

Description

Summary: Supervises installation, operation, and maintenance of fixed transmitter, receiver, or terminal equipment. *Skill Level 40:* Able to perform the duties required for 32D40 (Fixed Station Technical Controller), 32E40 (Fixed Station Carrier Repairman), 32F40 (Fixed Ciphony Repairman), 32G40 (Fixed Cryptographic Equipment Repairman), or 32H40 (Fixed Station Repairman); supervises and technically assists in the installation, operation, and maintenance of strategic transmitter, receiver, terminal, microwave, radio relay, message center, data processing, and cryptographic and satellite communications ground station equipment; conducts on-the-job training; oversees station operation and schedules maintenance; diagnoses and resolves equipment malfunctions; prepares technical reports; supervises up to 15 personnel. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises the installation, operation, and maintenance of integrated strategic communications systems in a large fixed station installation or serves in a communications headquarters; determines requirements, assigns duties, and coordinates activities of subordinate personnel; plans and supervises technical operations, maintenance of facility equipment, and training of personnel; supervises from 15–30 personnel. May serve as first sergeant of a company, supervising approximately 200 persons; advises company commander on all matters concerning enlisted personnel and is responsible for all enlisted personnel actions; directs and coordinates company administration; disseminates instructions and information to subordinate en-

listed supervisors. NOTE: May have progressed to 32Z50 from 32Z40, 32D40 (Fixed Station Technical Controller), 32E40 (Fixed Station Carrier Repairman), 32F40 (Fixed Ciphony Repairman), 32G40 (Fixed Cryptographic Equipment Repairman), 32H40 (Fixed Station Repairman), 26P50 (Radio Propagation Specialist), 26V50 (Strategic Microwave Systems Repairman), or 26Y50 (Satellite Communications Ground Station Equipment Repairman).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 3 for field experience in management, for a total of 9 semester hours (6/76).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, 6 for field experience in management, 3 in maintenance management, and 2 in technical report writing, for a total of 14 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 6 for field experience in management, 3 in industrial arts education (electronics), and 3 in personnel management, for a minimum total of 15 semester hours; and *if the duty assignment was chief instructor at a formal training facility*, 3 additional semester hours for an internship in education, for a total of 18 semester hours (6/76).

MOS–33S–001

EW/Intercept Systems Repairer
(EW/Intercept Systems Repairman)

33S10
33S20
33S30
33S40
33S50

Exhibit Dates: 3/76–Present.

Career Management Field: 33 (Electronic Warfare/Intercept Systems Maintenance).

Description

Summary: Supervises or performs maintenance on equipment that operates throughout the frequency spectrum, including receivers, multichannel magnetic sound recorders-reproducers, countermeasures sets, direction finder sets, and special demodulators used in mobile and fixed stations. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 10:* Connects equipment to power sources; disassembles and cleans electronic and mechanical components, assemblies and subassemblies; performs electronic and mechanical tests using test equipment, schematic diagrams, logic diagrams, and equipment performance standards; analyzes operation of malfunctioning equipment to locate defective components, subassemblies, and modules; repairs or replaces defective circuitry, parts, and components; aligns simple electronic circuits and adjusts mechanical performance of equipment to meet prescribed standards; has knowledge of transistors and integrated circuits; makes authorized substitutions of components and fabricates simple parts not requiring machine tooling; test-operates repaired equipment to insure performance and quality standards are met; prepares and maintains maintenance records and reports. *Skill Level 20:* Able to perform the duties required for Skill Level 10; interconnects antennas, receivers, transmitters, demultiplexers, preamplifiers, frequency converters, power supplies, audio and video amplifiers, and associated equipment according to specifications; uses advanced test measuring and diagnostic equipment; aligns complex electronic components for gain and frequency response in amplifiers; prepares, maintains, and reviews maintenance records and reports; provides technical assistance, guidance, and advice to subordinates on repair and maintenance of electronic systems. *Skill Level 30:* Able to perform the duties required for Skill Level 20; checks system interfacing to insure that performance meets required system standards; performs quality control inspections of maintenance performed; recommends design changes on unsatisfactory equipment, positions, and facilities; prepares and consolidates technical reports and maintenance records; diagnoses unusual cases of system malfunctions; interprets and explains complex operating and maintenance problems; supervises and instructs subordinate personnel and knows supply procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 30; establishes work priorities and assigns work to subordinate personnel; assists in the supervision of personnel making complex modifications and repairs; instructs and demonstrates diagnostic and repair procedures and use of advanced test equipment and tools; plans and supervises maintenance for mobile and fixed station facilities; recommends changes in work procedures; assists in preparation of maintenance schedules; makes oral presentations concerning maintenance activities. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as a maintenance manager of an activity of up to 175 persons; prepares lesson plans, approves changes in work procedures; reports on unsatisfactory equipment and circuitry; recommends equipment design changes and reports on efficiency of changes performed; assists in technical inspections and evaluates the effectiveness of maintenance procedures and practices; supervises personnel performing complex modifications and repairs on intercept and deception-jamming systems; evaluates subordinates; advises commander on matters of personnel welfare, morale, assignment, utilization, promotion, privileges, discipline, and training; interprets and explains technical literature on the operation and maintenance of general and special types of intercept and deception-jamming systems; prepares maintenance schedules; may serve as a chief instructor in a formal training facility; may have experience as the enlisted commander of a detachment; may have served as the first sergeant of a company.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC circuits, 3 in communications systems, 3 in systems troubleshooting, 3 in solid state electronics, 3 in technical mathematics, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, and 1 in digital electronics, for a total of 25 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 5 semester hours in systems troubleshooting, 3 in AC/DC circuits, 3 in communications systems, 3 in solid state electronics, 3 in technical mathematics, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, 1 in digital electronics, and 1 in circuit fabrication, for a total of 28 semester hours. In the lower-division baccalaureate/associate degree category, 5 semester hours in systems troubleshooting, 3 in AC/DC circuits, 3 in communications systems, 3 in solid state electronics, 3 in technical mathematics, 3 in human relations, 3 for field experience in personnel supervision, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, 1 in digital electronics, and 1 in circuit fabrication, for a total of 34 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 5 semester hours in systems troubleshooting, 3 in AC/DC circuits, 3 in communications systems, 3 in solid state electronics, 3 in technical mathematics, 3 in human relations, 3 for field experience in personnel supervision, 3 in shop management, 2 in power supplies, 2 in pulse circuits, 2 in antenna and wave propagation theory, 2 in instrumentation, 1 in electromechanical devices, 1 in digital electronics, and 1 in circuit fabrication, for a total of 37 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (6/77).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in resource management, and 3 in personnel management, for a minimum total of 15 semester hours; *if the duty assignment was chief instructor in a formal training facility*, 3 additional semester hours for an internship in education, for a total of 18 semester hours (6/77).

MOS–34B–001

Tabulating Equipment Repairman

34B10
34B20
34B30
34B40

Exhibit Dates: 9/75–Present.

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on electrical accounting machines. *Skill Level 10:* Inspects, tests, adjusts, and maintains electrical accounting machine equipment; locates and determines causes of malfunction; replaces pins, gears, arms, shafts, and rollers; cleans, oils, and lubricates equipment; reads wiring diagrams and mechanical blueprints; computes voltage, amperage, and resistance factors; employs safety precautions when working with high voltages. *Skill Level 20:* Able to perform the duties required for Skill Level 10; inspects electrical accounting equipment to insure proper operation; adjusts or repairs improperly working electrical accounting equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as a senior tabulating equipment repairman; performs or assists in supervising maintenance. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as chief tabulating equipment repairman; supervises 5 or more tabulating equipment repairmen.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical fundamentals and 3 in office equipment repair (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in electrical fundamentals and 3 in office equipment repair. In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical fundamentals, 3 in office equipment repair, and 3 for field experience in office machine repair, for a total of 9 semester hours (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in electrical fundamentals and 3 in office equipment repair. In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical fundamentals, 3 in office equipment repair, 3 for field experience

in office machine repair, and 3 in human relations, for a total of 12 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in electrical fundamentals and 3 in office equipment repair. In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical fundamentals, 3 in office equipment repair, 3 for field experience in office machine repair, 3 in human relations, and 3 for field experience in maintenance management, for a total of 15 semester hours (5/76).

MOS–34D–001

ADPS (Automatic Data Processing Systems) Repairman

34D20

34D50

Exhibit Dates: 10/73–8/75. (Effective 9/75, MOS 34D was discontinued and its functions were incorporated into the other data processing equipment maintenance MOS's in subfield 742.)

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Summary: Supervises or performs on-site maintenance and malfunction isolation of digital computers, peripheral equipment, and subscriber terminals (input/output devices); reads and interprets schematic diagrams, truth tables, logic diagrams, and flow charts. *Skill Level 20:* Applies electronic and logic theory in trouble diagnosis; uses test equipment such as VOM and oscilloscope for troubleshooting and repair; understands digital computer principles and operation; performs flow chart and diagnostic routine operations; lubricates and cleans equipment as required. *Skill Level 50:* Able to perform the duties required for Skill Level 20; provides technical assistance for complex problem diagnosis; supervises on-site computer maintenance and repair; schedules maintenance periods and coordinates work flow; supervises Skill Level 20 personnel, providing technical guidance and appraising performance.

Recommendation, Skill Level 20

In the vocational certificate category, a minimum of 18 semester hours in computer science, and additional credit on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, a minimum of 12 semester hours in computer science, and additional credit on the basis of institutional evaluation. In an electronic technician apprentice training program, 2,000 clock hours of experience and 100 contact hours of related instruction in office machine repair, and additional hours on the basis of employer or trade association performance examination (2/75).

Recommendation, Skill Level 50

In the vocational certificate category, a minimum of 18 semester hours in computer science, additional credit in computer science on the basis of institutional evaluation, and 3 semester hours for a practicum in business management, for a minimum total of 21 semester hours. In the lower-division baccalaureate/associate degree category, a minimum of 12 semester hours in computer science, additional credit in computer science on the basis of institutional evaluation, and 3 semester hours for a practicum in business management, for a minimum total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours for a practicum in business management. In an electronic technician apprentice training program, 3,000 clock hours of experience and 150 contact hours of related instruction in office machine repair (2/75).

MOS–34E–001

NCR 500 Computer Repairman

34E20

34E30

34E40

Exhibit Dates: 9/75–Present.

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on the NCR 500 computer. *Skill Level 20:* Performs routine maintenance on NCR 500 equipment; determines and repairs common electrical, electronic, and mechanical malfunctions; interprets circuit diagrams and technical literature; prescribes test procedures; uses specialized test equipment, including multimeters, checking processors (tube, transistor, and circuit), and oscilloscopes. *Skill Level 30:* Performs the duties required for Skill Level 20 and repairs console panels, processor, memory unit, arithmetic, power supply, card reader and controller, punched card peripheral equipment, and auxiliary units; may supervise Skill Level 20 personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs or supervises maintenance on NCR 500 equipment.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in electromechanical devices and systems, 3 in electronic circuit applications, 2 in basic mathematics, 2 in introduction to digital and logic theory, 2 in basic electronics theory, 2 in basic electronics laboratory, 2 in amplifier devices, and 2 in instrument applications, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in industrial arts. In an office machine repair apprentice-training program, 2,000 clock hours of experience and 100 contact hours of related instruction; in a computer technician apprentice training program, 1,500 clock hours of experience and 78 contact hours of related instruction; in an electronic technician (certified) apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. May meet employer standards to qualify as a product test technician in the electronic/electrical manufacturing industry (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in industrial arts, 3 in human relations, and additional credit in personnel supervision and maintenance management on the basis of institutional evaluation, for a minimum total of 9 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS–34F–001

DSTE Repairman

34F20

34F30

34F40

Exhibit Dates: 10/73–Present.

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on Digital Subscriber Terminal Equipment (DSTE). *Skill Level 20:* Performs routine maintenance on DSTE equipment; determines and repairs common electrical, electronic, and mechanical malfunctions; interprets circuit diagrams and technical literature; prescribes test procedures; uses specialized test equipment, including multimeters, checking processors (tube, transistor, and circuit), and oscilloscopes. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs inspections on systems and peripheral equipment; may supervise Skill Level 20 personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs or supervises maintenance on DSTE equipment.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in electromechanical devices and systems, 3 in electronic circuit applications, 2 in basic mathematics, 2 in introduction to digital and logic theory, 2 in basic electronics theory, 2 in basic electronics laboratory, 2 in amplifier devices, and 2 in instrument applications, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, and 3 in industrial arts. In an office machine repair apprentice training program, 2,000 clock hours of experience and 100 contact hours of related instruction; in a computer technician apprentice training program, 1,500 clock hours of experience and 78 contact hours of related instruction; in an electronic technician (certified) apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. May meet employer standards to qualify as a product test technician in the electronic/electrical manufacturing industry (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in industrial arts, 3 in human relations, and additional credit in personnel supervision and maintenance management on the basis of institutional evaluation, for a minimum total of 9 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS–34G–001

Fire Control Computer Repairman

34G10

34G20

34G30

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 634 (Armament Maintenance).

Description

Summary: Supervises or performs maintenance on fire control gun directional digital computer, viewer computer systems, laser rangefinders, electronic analog computers, and related test equipment. *Skill Level 10:* Maintains field artillery digital automatic computer system, AR–852 viewer computer, electronic analog computers, and laser rangefinders; uses and maintains special electronic and mechanical systems test equipment and electrician's and mechanic's hand tools; determines causes of malfunctions and removes and replaces defective electronic, electrical, and mechanical components; seals, spot paints, and purges and charges laser rangefinder components with nitrogen, as required; interprets complex schematic diagrams. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs support and depot maintenance on AR–85A viewer computer; provides technical guidance to Skill Level 10 personnel; supervises or installs equipment modifications; diagnoses complex malfunctions; conducts on-the-job training; maintains maintenance records. *Skill Level 30:* Able to perform the duties required for Skill

Level 20; instructs Skill Level 10 and 20 personnel in troubleshooting, proper repair methods, and maintenance techniques and procedures; establishes maintenance priorities and schedules and assigns work; performs final inspection and testing of repaired equipment.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in use and care of hand and power tools, 3 in the use and maintenance of testing equipment, 3 in electrical wiring systems, and 3 in basic electronics, and additional credit in these areas on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in technical mathematics, and additional credit in electronics, electricity, applied physics, mathematics, and computer maintenance on the basis of institutional evaluation, for a minimum total of 6 semester hours. In an electronics technician apprentice training program, 500 clock hours of experience and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in use and care of hand and power tools, 3 in use and maintenance of testing equipment, 3 in electrical wiring systems and 3 in basic electronics, and additional credit in these areas on the basis of institutional evaluation, for a minimum total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in technical mathematics, 6 in shop practices, and 3 in personnel supervision and training, and additional credit in electronics, electricity, mathematics, applied physics, and computer maintenance on the basis of institutional evaluation, for a minimum total of 15 semester hours. In an electronics technician apprentice training program, 1,500 clock hours of experience and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in technical mathematics, 3 in personnel supervision, 6 in shop practices, and 1 in records administration, and additional credit in electronics, electricity, mathematics, applied physics, and computer maintenance on the basis of institutional evaluation, for a minimum total of 16 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management, *only if the duty assignment was fire control computer repair foreman.* In an electronics technician apprentice training program, 3,000 clock hours of experience and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS–34H–001

ADMSE REPAIRMAN

34H20
34H30
34H40

Exhibit Dates: 9/75–8/77

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on Automatic Digital Message Switch Equipment (ADMSE). *Skill Level 20:* Performs routine maintenance on ADMS equipment; determines and repairs common electrical, electronic, and mechanical malfunctions; interprets circuit diagrams and technical literature; prescribes test procedures; uses specialized test equipment, including multimeters, checking processors (tube, transistor, and circuit), and oscilloscopes. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs inspections on systems and peripheral equipment; may supervise Skill Level 20 personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs or supervises maintenance on ADMSE equipment.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in electromechanical devices and systems, 3 in electronic circuit applications, 2 in basic mathematics, 2 in introduction to digital and logic theory, 2 in basic electronics theory, 2 in basic electronics laboratory, 2 in amplifier devices, and 2 in instrument applications, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in industrial arts. In an office machine repair apprentice training program, 2,000 clock hours of experience and 100 contact hours of related instruction; in a computer technician apprentice training program, 1,500 clock hours of experience and 78 contact hours of related instruction; in an electronic technician (certified) apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. May meet employer standards to qualify as a product test technician in the electronic/electrical manufacturing industry (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in industrial arts, and 3 in human relations, and additional credit in personnel supervision and maintenance management on the basis of institutional evaluation, for a minimum total of 9 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS–34H–002

ADMSE REPAIRER

34H20

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–34J–001

UNIVAC 1004/1005, DCT–9000 SYSTEM REPAIRMAN

34J20
34J30
34J40

Exhibit Dates: 9/75–Present.

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on the UNIVAC 1004/1005, DCT–9000 computer system and peripheral equipment. *Skill Level 20:* Performs maintenance on computer input-output equipment (card and paper tape processors); follows schematic diagrams and maintenance manuals in determining the nature, location, and extent of malfunctions in either electrical or mechanical equipment; uses specialized test equipment, including multimeters, oscilloscopes, transistor- and tube-checkers, and pulse generators; performs inspections, adjustments, repairs, and modifications as specified in official technical manuals. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs periodic and emergency inspections of systems and peripheral equipment; may supervise Skill Level 20 personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs or supervises maintenance on UNIVAC and DCT–9000 systems.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in electromechanical devices and systems, 3 in electronic circuits applications, 2 in basic mathematics or introduction to algebra, 2 in basic electronics (AC/DC theory), 2 in amplifier devices (tubes, transistors), 2 in basic electronics laboratory, and 1 in instrument applications, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics theory/laboratory and 3 in industrial arts. In an office machine repair apprentice training program, 2,000 clock hours of experience and 100 contact hours of related instruction. In a computer technician apprentice training program, 1,500 clock hours of experience and 78 contact hours of related instruction. In an electronic technician (certified) apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. May meet employer standards to qualify as a product test technician in the electronic/electrical manufacturing industry (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics theory/laboratory, 3 in industrial arts, 3 in human relations, and additional credit in personnel supervision and maintenance management on the basis of institutional evaluation, for a minimum total of 9 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS–34K–001

IBM 360 REPAIRMAN

34K20
34K30
34K40

Exhibit Dates: 9/75–Present.

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on the IBM 360 computer and peripheral equipment. *Skill Level 20:* Performs maintenance on the IBM 360 computer and peripheral equipment, including console control panels, processor, memory unit, arithmetic, power supply, card reader and controller, and auxiliary units; uses specialized equipment, including multimeters, oscilloscopes, tube- and transistor-testers, and pulse generators; performs preventive and routine maintenance of tools and test equipment; interprets technical manuals and schematic diagrams; adjusts, troubleshoots, and repairs various electrical devices, electronic circuit components and electromechanical systems. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs periodic and emergency inspections and adjustments with diagnostic test programs and special equipment; may supervise up to 15 lower skill level personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs or supervises maintenance on IBM 360 computer system.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in electromechanical devices, 3 in electronic circuit applications, 2 in basic math-

ematics, 2 in basic electronics theory, 2 in basic electronics laboratory, 2 in amplifier devices, 2 in digital-logic systems, and 1 in instrument applications, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in basic mathematics, 2 in basic electronics, 2 in transistor theory, and 2 in introduction to computer circuits, for a total of 8 semester hours. In an office machine repair apprentice training program, 2,000 clock hours of experience and 100 contact hours of related instruction; in a computer technician apprentice training program, 1,500 clock hours of experience and 78 contact hours of related instruction; in an electronic technician (certified) apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. May meet employer standards to qualify as a product test technician in the electronic/electrical manufacturing industry (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 2 semester hours in basic mathematics, 2 in basic electronics, 2 in transistor theory, 2 in introduction to computer circuits, 3 in human relations, and additional credit in personnel supervision and maintenance management on the basis of institutional evaluation, for a minimum total of 11 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS–34L–001

ADMS Peripheral Equipment Repairman

34L20
34L30
34L40

Exhibit Dates: 9/75–8/77. (Effective 9/77, MOS 34L was discontinued and its functions were incorporated into MOS 34H, ADMSE Repairer.)

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on the Automatic Digital Message Switching (ADMS) peripheral equipment. *Skill Level 20:* Performs maintenance on ADMS peripheral equipment, including punched card subsystem, card reader, high speed printer subsystem, magnetic tape subsystem, and Systems Command Terminal; interprets technical manuals and schematic diagrams; uses specialized test equipment, including multimeters, oscilloscopes, tube- and transistor-checkers, and pulse generators; performs preventive and routine maintenance on electrical devices, electronic circuit components, and electromechanical apparatus; keeps maintenance records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs periodic and emergency inspections and adjustments; may supervise Skill Level 20 personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs or supervises maintenance on ADMS peripheral equipment.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in electronic circuit applications, 3 in electromechanic devices and systems, 2 in basic mathematics, 2 in basic electronics theory, 2 in basic electronics laboratory, 2 in amplifier devices, 1 in instrument applications, and 1 in logic and digital principles, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in industrial arts. In an office machine repair apprentice training program, 2,000 clock hours of experience and 100 contact hours of related instruction. In a computer technician apprentice training program, 1,500 clock hours of experience and 78 contact hours of related instruction. In an electronic technician (certified) apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. May meet employer standards to qualify as a product test technician in the electronic/electrical manufacturing industry (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in industrial arts, 3 in human relations, and additional credit in personnel supervision and maintenance management on the basis of institutional evaluation, for a minimum total of 9 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS–34M–001

SDS 920 Equipment Repairman

34M20
34M30
34M40

Exhibit Dates: 9/75–2/77. (Effective 3/77, MOS 34M was discontinued.)

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Summary: Supervises or performs maintenance on SDS 920 computer, including peripheral equipment and auxiliary units. *Skill Level 20:* Interprets schematic diagrams and maintenance manuals in determining the nature, location, and extent of malfunctions in either electrical or mechanical equipment; uses specialized test equipment, including multimeters, oscilloscopes, transistor- and tube-checkers, and pulse generators; performs inspections, adjustments, repairs, and modifications from technical manuals. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs periodic and emergency inspections of systems and peripheral equipment; may supervise Skill Level 20 personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs or supervises maintenance on SDS 920 computer systems.

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 3 semester hours in electronic circuit applications, 3 in electromechanical devices and systems, 2 in basic mathematics, 2 in basic electronics theory, 2 in basic electronics laboratory, 2 in amplifier devices, 1 in instrument applications, and 1 in logic and digital principles, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in industrial arts. In an office machine repair apprentice training program, 2,000 clock hours of experience and 100 contact hours of related instruction. In a computer technician apprentice training program, 1,500 clock hours of experience and 78 contact hours of related instruction. In an electronic technician (certified) apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. May meet employer standards to qualify as a product test technician in the electronic/electrical manufacturing industry (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in industrial arts, and 3 in human relations, and additional credit in personnel supervision and maintenance management on the basis of institutional evaluation, for a minimum total of 9 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (6/76).

MOS–34Z–001

ADPS (Automatic Data Processing Systems) Maintenance Supervisor

34Z50

Exhibit Dates: 9/75–Present.

Career Management Field: 74 (Automatic Data Processing), *subfield* 742 (Data Processing Equipment Maintenance).

Description

Supervises Skill Level 40 personnel in subfield 742 (data processing equipment maintenance); supervises ADP maintenance activities; diagnoses and evaluates complex malfunctions; determines length of time, tools, and parts required to repair malfunctioning computer or related equipment; provides technical guidance to subordinate personnel and to superiors; evaluates quality of maintenance work, corrects faulty work practices, and instructs maintenance personnel in proper work procedures; may serve as a chief instructor at a formal training facility. NOTE: May have progressed to 34Z50 from any MOS in subfield 742.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 3 in maintenance management, for a total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in industrial arts education, and 3 for field experience in management, for a minimum total of 9 semester hours; and 3 additional semester hours for field experience in management on the basis of institutional evaluation, for a total of 12 semester hours; and, *if the duty assignment was chief instructor,* 3 semester hours for an internship in education, for a maximum total of 15 semester hours. NOTE: Consult the exhibits for previously held MOS's for credit recommended for automatic data processing equipment maintenance (6/76).

MOS–35B–001

Electronic Instrument Repairman

35B20
35B30
35B40

Exhibit Dates: 10/73–4/77.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 351 (Instrument Calibration and Maintenance).

Description

Summary: Performs maintenance calibration and support maintenance on radiation detectors, He detectors, and electrical/electronic measuring and test equipment. *Skill Level 20:* Performs checks to detect malfunction or nonfunction of instruments and extent of maintenance required; disassembles, repairs, and retests instruments; uses common and specialized hand tools, measuring instruments, and testing devices; performs basic Ohm's law computations; interprets schematic and wiring diagrams. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs detailed testing on and repairs advanced electronic test equipment, including pulse scopes, digital frequency counters, spectrum analyzers, micro-

wave/radar test equipment, differential and digital voltmeters. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises repair and maintenance calibration of electronic test equipment; instructs subordinates in support maintenance procedures, schedules repair operations, keeps records, maintains a supply of spare parts, prepares administrative and technical reports, and diagnoses unusual cases of malfunction or nonfunction; supervises a minimum of eight personnel.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in instrumentation laboratory or electronic maintenance, and 6 in introductory electricity/electronics. In the lower-division baccalaureate/associate degree category, 6 semester hours in introductory electricity/electronics, and credit in instrumentation laboratory or electronic maintenance on the basis of institutional evaluation. In an electronic instrument repairman apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (2/75).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in instrumentation laboratory or electronic maintenance, and 3 in electronic troubleshooting. In the lower-division baccalaureate/associate degree category, 6 semester hours in electricity/electronics, and credit in instrumentation laboratory or electronic maintenance on the basis of institutional evaluation. In an electronic instrument repairman apprentice training program, 3,000 clock hours of experience and 288 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in instrument laboratory or electronic maintenance, and 3 in electronics troubleshooting. In the lower-division baccalaureate/associate degree category, 6 semester hours in introductory electricity/electronics, 3 in personnel management practicum, and credit in instrumentation laboratory or electronic maintenance on the basis of institutional evaluation, for a minimum of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in maintenance management, and credit in industrial arts for a practicum in business management on the basis of institutional evaluation. In an electronic instrument repairman apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (2/75).

MOS–35B–002

ELECTRONIC INSTRUMENT REPAIRMAN

35B20
35B30
35B40

Exhibit Dates: 5/77–Present.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 351 (Instrument Calibration and Maintenance).

Description

Summary: Performs maintenance, repair, and calibration of radiac instruments, polygraph equipment, and electrical/electronic measuring and test equipment. *Skill Level 20:* Tests instruments and equipment to determine cause of malfunction; dismantles assemblies to inspect, remove, and replace components; repairs circuit wiring; performs calibration and final test of repaired equipment to comply with technical manual instructions, manufacturers' specifications, or equipment standards; tests electrical/electronic equipment, including ammeters, voltmeters, vacuum tube voltmeters, signal generators, tube and transistor testers, oscilloscopes, frequency meters and counters; uses common and specialized hand tools, measuring instruments, and testing devices; performs basic Ohm's law computations; interprets schematic and wiring diagrams; tests, troubleshoots, repairs, and adjusts radiac instruments to specified tolerances. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs detailed tests on and repairs advanced electronic test equipment, including pulse scopes, digital frequency counters, precision frequency meters, spectrum analyzers, panoramic indicators, microwave/radar test equipment, summation bridges, differential and digital voltmeters; performs final testing and calibration. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a minimum of 8 subordinates engaged in the repair and calibration of electronic test equipment; diagnoses unusual causes of malfunctions; assigns personnel to specific duties; demonstrates proper maintenance procedures, practices, and techniques; plans and schedules repair, maintenance calibration, and certification of equipment; keeps equipment records; inventories and requisitions parts and supplies; establishes files of technical publications; prepares technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in introductory electricity/electronics, 3 in technical mathematics, and 3 in instrumentation laboratory, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 3 in transistor theory, and 2 in technical mathematics, and additional credit in instrumentation on the basis of institutional evaluation, for a minimum total of 8 semester hours. In an electronic instrument repairman apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction (5/77).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in electricity/electronics, 6 in instrumentation laboratory, and 3 in technical mathematics, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 3 in transistor theory, 3 in instrumentation laboratory, and 2 in technical mathematics, for a total of 11 semester hours. In an electronic instrument repairman apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction (5/77).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in electricity/electronics, 6 in instrumentation laboratory, 3 in technical mathematics, 3 in electronics troubleshooting, and 1 in use of technical publications, for a total of 19 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in AC/DC theory, 3 in transistor theory, 3 in instrumentation laboratory, 2 in technical mathematics, 3 in human relations, 3 in personnel supervision, 2 in record keeping, and 1 in technical report writing, for a total of 20 semester hours. In the upper-division baccalaureate category, 3 semester hours in maintenance management and additional credit in industrial arts and for field experience in management on the basis of institutional evaluation. In an electronic instrument repairman apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (5/77).

MOS–35D–001

METEOROLOGICAL EQUIPMENT REPAIRMAN

35D20
35D30

Exhibit Dates: 10/73–Present.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Summary: Performs maintenance on electrical, electronic, and electro-mechanical weather equipment employed in meteorological units. *Skill Level 20:* Performs operational maintenance; assists in siting and operating meteorological equipment; keeps test and maintenance records; assists in maintaining proper supply levels of spare parts and expendable supplies; repairs circuit wiring; traces circuit continuity to identify malfunctions; troubleshoots such items as radiosonde, radio direction finder, radiosonde recorder, and frequency standard. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs direct and general support maintenance on electronic and electrical meteorological equipment; troubleshoots and repairs equipment such as barometric pressure, temperature, and wind measuring and recording instruments; inspects repairs and determines the adequacy of maintenance performed. NOTE: May progress from 35D30 to 35H50 (Calibration Specialist).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 5 semester hours in basic electronics, 4 in fundamentals of DC and AC electrical circuits, and 3 in electrical and electronic laboratory, for a total of 12 semester hours (11/75).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 5 semester hours in basic electronics, 4 in DC and AC electrical circuits, 3 in electrical and electronic laboratory, 3 in technical report writing, 3 in electronic circuits, and 3 in electronic tests and measurements, for a total of 21 semester hours (11/75).

MOS–35E–001

SPECIAL ELECTRICAL DEVICES REPAIRMAN

35E20
35E30
35E40

Exhibit Dates: 10/73–Present.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 352 (Electrical/Electronic Devices Maintenance).

Description

Summary: Performs complex maintenance procedures on specialized electrical and electronic measurement equipment; assists with maintenance of electro-optical vision equipment and detection equipment; applies schematic tracing skills and basic electronics theory in troubleshooting malfunctions; performs repairs, replacements, or modifications in compliance with technical manuals; uses specialized tools and test equipment in diagnosing symptoms and in locating problems in circuits down to discrete electrical components; regularly updates maintenance manual, records, and supply stock. *Skill Level 20:* Performs maintenance on electronic orientation, surveillance, measurement, vision, and detection equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; may supervise up to 5 persons in a maintenance facility. *Skill Level 40:* Able to perform the duties required for Skill Level 30; possesses advanced knowledge and more varied experience on specialized electrical and electronic equipment; supervises from 10 to 30 persons; prepares technical reports; plans maintenance activities; gives direction and instruction in resolving complex maintenance problems.

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in basic electronics, 3 in industrial

electronic instrumentation, and 3 in electro-optics applications or electromechanical applications, 1 in technical mathematics, and 1 in semiconductor theory and applications, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics and 3 in basic electronics laboratory applications. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) (3/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in basic electronics laboratory applications, and 3 in human relations for a total of 9 semester hours. In the upper-division baccalaureate category, the recommendation is the same as that for Skill Level 20 (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to electronics, 3 in basic electronics laboratory applications, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 15 semester hours. In the upper-division baccalaureate category, the recommendation is the same as that for Skill Level 20 (3/76).

MOS–35F–001

NUCLEAR WEAPONS ELECTRONICS SPECIALIST

35F10

35F20

Exhibit Dates: 3/76–Present.

Career Management Field: 55 (Ammunition).

Description

Summary: Performs maintenance on highly specialized electronic equipment associated with nuclear weapons and nuclear weapons trainers. *Skill Level 10:* Under close supervision of 35F20 personnel, assists in performing maintenance functions using multimeters and electronic hand tools. *Skill Level 20:* Performs maintenance, diagnoses malfunctions, replaces defective parts, and test-operates repaired equipment; uses multimeters, oscilloscopes, and electrical/electronic hand tools; interprets schematic diagrams and technical publications; keeps records of work performed.

Recommendation, Skill Level 10

In the vocational certificate category, 2 semester hours in basic electricity and 1 in care and use of tools and test equipment. Advanced standing in an electrical maintenance apprentice training program, on the basis of employer or trade association performance examination (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in basic electricity, 2 in electrical/electronic troubleshooting, 2 in electrical/electronic maintenance, and 1 in care and use of tools and test equipment for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in electrical/electronic maintenance and 1 in basic electricity. Advanced standing in an electrical maintenance apprentice training program on the basis of employer or trade association performance examination (6/76).

MOS–35G–001

BIOMEDICAL EQUIPMENT REPAIRMAN (MEDICAL EQUIPMENT REPAIRMAN)

35G20

Exhibit Dates: 10/74–Present.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 354 (Medical Equipment Maintenance).

Description

Performs routine maintenance on non-complex medical equipment, including electrical-electronic, mechanical, and optical equipment; repairs and installs mechanical medical equipment including sterilizers, stills, anesthesia apparatus, resuscitators, dental operating units, operating tables and lamps, food carts, hospital beds, etc.; dismantles and cleans equipment; checks for wear and repairs simple mechanical and electrical defects; installs water, air, and steam lines and tests for leakage and fit; uses volt-ohm-milliameter.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in medical equipment maintenance, 2 in shop operations (procedures), and 1 in basic electricity laboratory, for a total of 5 semester hours (5/76).

MOS–35H–001

CALIBRATION SPECIALIST

35H20

35H40

35H50

Exhibit Dates: 10/73–2/75.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 351 (Instrument Calibration and Maintenance).

Description

Summary: Performs complex calibration procedures at secondary reference or transfer reference level on electrical, electronic, pressure, vacuum, hydraulic, and mechanical test and measuring instruments and devices; performs linear measurements in all aspects of metrology; compares standards of measurement and references; performs minor electronic maintenance; checks and evaluates condition of equipment. *Skill Level 20:* Calibrates transfer standards to reference standards; checks and adjusts secondary standards for calibration against primary standards; calibrates test and system support equipment within design accuracy; computes voltage, current, and resistence factors; evaluates condition of test and measuring equipment and makes minor repairs. *Skill Level 40:* Able to perform the duties required for Skill Level 20; competent in error analysis; diagnoses unusual malfunctions of sophisticated equipment; performs complex calibration procedures; plans calibration loops and performs final check-out operations in closing calibration loops; recognizes and adheres to standards of accuracy to which secondary reference standards must be certified; teaches subordinates how to use and interpret calibration procedures. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a first-line supervisor; interprets and initiates changes in company policies; directs and coordinates the administrative activities of the company; supervises subordinates; conducts on-the-job training. NOTE: May have progressed to 35H30 from 35H40, 35B40 (Electronic Instrument Repairman), 35E40 (Special Electrical Devices Repairman), 35U50 (Biomedical Equipment Maintenance Chief), or 35P50 (Avionic Equipment Maintenance Supervisor).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in basic algebra and trigonometry, 6 in fundamentals of DC and AC electrical circuits, 6 in basic electronics with laboratory, 6 in communication electronics with laboratory, 6 in electronic instrumentation with laboratory, and 6 in laboratory techniques, and additional credit on the basis of institutional evaluation, for a minimum total of 36 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic algebra and trigonometry, 3 in fundamentals of DC and AC electrical circuits, 3 in basic electronics with laboratory, 3 in communication electronics with laboratory, 3 in electronic instrumentation with laboratory, and 3 in laboratory techniques, for a total of 18 semester hours. In the upper-division baccalaureate category, 6 semester hours in industrial arts or technical electives and additional credit on the basis of institutional evaluation. In an electrical instrumentation repairman (communications) apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/75).

Recommendation, Skill Level 40

The recommendation for educational credit is the same as that for Skill Level 20. In an electrical instrumentation repairman (communications) apprentice training program, 5,000 clock hours of experience and 360 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/75).

Recommendation, Skill Level 50

In the vocational certificate category, 6 semester hours in basic algebra and trigonometry, 6 in fundamentals of DC and AC electrical circuits, 6 in basic electronics with laboratory, 6 in communications electronics with laboratory, 6 in electronic instrumentation with laboratory, 6 in laboratory techniques, and 3 in office management, and additional credit on the basis of institutional evaluation, for a minimum total of 39 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic algebra and trigonometry, 3 in fundamentals of DC and AC electrical circuits, 3 in basic electronics with laboratory, 3 in communication electronics with laboratory, 3 in electronic instrumentation with laboratory, 3 in laboratory techniques, 3 in personnel supervision, and 3 in office management, for a total of 24 semester hours. In the upper-division baccalaureate category, 6 semester hours in industrial arts or technical electives, 3 in personnel management, and 3 for field experience in management or administration, and additional credit in technical areas on the basis of institutional evaluation, for a total of 12 semester hours; and 3 additional semester hours for field experience in education *only if the duty assignment was chief instructor*, for a total of 15 semester hours. In an electronic instrumentation repairman (communications) apprentice training program, 5,000 clock hours of experience and 360 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/75).

MOS–35H–002

CALIBRATION SPECIALIST

35H20

35H30

35H40

35H50

Exhibit Dates: 3/75–Present.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 351 (Instrument Calibration and Maintenance).

Description

Summary: Performs complex calibration procedures at secondary reference or transfer reference level on electrical, electronic, pressure, vacuum, hydraulic, and mechanical test and measuring instruments and devices; performs linear measurements in all aspects of metrology; compares standards of measurement and references; performs minor electronic maintenance; checks and evaluates condition of equipment. *Skill Level 20:* Applies knowledge of operational characteristics of test, measure-

ment, and diagnostic equipment; performs calibration of electronic equipment using secondary transfer standards; must be capable of performing calibrations in all transfer level parameters or measurement, including AC voltage and current, DC voltage and current, resistance, capacitance, inductance, frequency, time interval, rise time, RF power frequency response, distortion, phase, standing wave ratio, attenuation, magnetic field strength, photometric brightness, irradiance, sound pressure, relative humidity, temperature, viscosity, specific gravity, length, gas and liquid flow, mass torque, vacuum, hydraulic pressure, and pneumatic pressure; prepares and affixes calibration certificates, tags, labels, and correction charts; recommends changes to calibration procedures and other technical publications. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs calibrations using more sophisticated techniques and standards to obtain a much greater degree of precision and accuracy; operates secondary reference standards in a controlled environment and determines specific effect on the measurement process; calibrates all secondary reference standards; prepares technical reports and charts. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs check-out operations in closing calibration loop; diagnoses and determines causes of unusual cases of malfunction or nonfunction of electrical and electronic devices; supervises or executes installation and location of equipment; instructs, explains, and interprets technical literature, schematics, specifications, and calibration procedures; organizes technical operations for calibration teams; operates a quality control and production control program for calibration operations and calibration equipment repair. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as a first-line supervisor in a calibration laboratory or facility; plans, coordinates, and supervises activities pertaining to training and technical operation of the facility to which assigned; develops and reviews correspondence relating to calibration activities; coordinates the efforts of the technical support elements of a calibration activity in support of the calibration laboratory and teams; prepares interservice/intraservice agreements relative to calibration support. NOTE: May have progressed to 35H50 from 35H40, 35B40 (Electronic Instrument Repairman), 35E40 (Special Electrical Devices Repairman), 35U50 (Biomedical Equipment Maintenance Chief), or 35P50 (Avionic Equipment Maintenance Supervisor).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in electronic instrumentation with laboratory, 6 in basic electronics with laboratory, 5 in technical mathematics, 2 in DC circuit theory, 2 in DC circuit laboratory, 2 in AC circuit theory, and 2 in AC circuit laboratory, for a total of 28 semester hours. In the upper-division baccalaureate category, 3 semester hours in electronic instrumentation fundamentals and 3 in industrial arts education (electronics). In the graduate degree category, credit in instrumentation techniques on the basis of institutional evaluation. In an electrical instrumentation repairman (communications) apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 9 semester hours in electronic instrumentation with laboratory, 6 in basic electronics with laboratory, 5 in technical mathematics, 3 in laboratory techniques, 2 in technical writing, 2 in DC circuit theory, 2 in DC circuit laboratory, 2 in AC circuit theory, 2 in AC circuit laboratory, for a total of 33 semester hours. In the upper-division baccalaureate category, 3 semester hours in electronic instrumentation fundamentals and 3 in industrial arts education (electronics). In the graduate degree category, credit in instrumentation techniques on the basis of institutional evaluation. In an electrical instrumentation repairman (communications) apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instructions. Journeyman status achieved through employer or trade association performance examination (3/76).

Recommendation, Skill Levels 40 and 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 9 semester hours in electronic instrumentation with laboratory, 6 in basic electronics with laboratory, 5 in technical mathematics, 3 in laboratory techniques, 3 in personnel supervision, 3 in human relations, 2 in technical writing, 2 in DC circuit theory, 2 in DC circuit laboratory, 2 in AC circuit theory, and 2 in AC circuit laboratory, for a total of 39 semester hours. In the upper-division baccalaureate category, 6 semester hours in technical electives, 3 in electronic instrumentation fundamentals, and 3 in industrial arts education (electronics), for a total of 12 semester hours. In the graduate degree category, credit in instrumentation techniques on the basis of institutional evaluation. In an electrical instrumentation repairman (communications) apprentice training program, 5,000 clock hours of experience and 360 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/76).

MOS–35J–001

AIRCRAFT FIRE CONTROL REPAIRMAN

35J20

35J40

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 35J was discontinued and its functions were incorporated into MOS 68J, Helicopter Missile Systems Repairer, and MOS 68K, Aircraft Components Repair Supervisor.)

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Components Repair).

Description

Summary: Supervises or performs support maintenance on optical electrical/electronic components of aircraft armament subsystems, printed cards, and systems peculiar to electronic test equipment for all aircraft armament subsystems. *Skill Level 20:* Performs support maintenance on aircraft fire control equipment; interprets electrical/electronic schematics and systems diagrams; employs standard and systems peculiar test equipment to troubleshoot and isolate malfunctions; replaces or adjusts faulty components; performs final checkout; performs support maintenance on test equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises 5 or more persons performing maintenance on electrical/electronic aircraft armament fire control subsystems.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in basic electricity (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 4 semester hours in basic electricity. In the lower-division baccalaureate/associate degree category, 4 semester hours in basic electricity and 2 in personnel supervision (11/75).

MOS- 35K–001

AVIONICS MECHANIC

35K20

Exhibit Dates: 10/73–8/77.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 353 (Avionics Maintenance).

Description

Performs duties comparable to those of a Federal Communications Commission Second Class licensee; troubleshoots and maintains communications, navigation, and flight control systems, and on-board avionics equipment; isolates equipment malfunctions to the component level; reads and interprets electronic circuit diagrams and schematics; plans and schedules maintenance checks; performs maintenance on special and common hand tools and on test, calibration, diagnostic, and support equipment.

Recommendation

In the vocational certificate category, 3 semester hours in electrical and electronic print reading, 4 in avionics maintenance, and 1 in aviation maintenance technology, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical and electronic print reading and 4 in electronics maintenance or avionics technology, for a total of 7 semester hours. In the upper-division baccalaureate category, 4 semester hours in aviation maintenance management or aviation maintenance engineering technology (2/75).

MOS–35K–002

AVIONIC MECHANIC

35K10

35K20

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–35L–001

AVIONIC COMMUNICATIONS EQUIPMENT REPAIRMAN

35L20

Exhibit Dates: 10/73–8/77.

Career Management Field: 35 (Electrical/Electronic Equipment Maintenance), *subfield* 353 (Avionics Maintenance).

Description

Performs highly complex maintenance procedures on transistorized and vacuum tube avionic radio communications equipment; uses knowledge in basic electronics and schematic tracing to troubleshoot equipment; uses specialized hand tools and test equipment to perform diagnostic tests of malfunctions down to discrete circuit components; tests, aligns, and adjusts equipment to insure maximum operating efficiency; replaces parts, performs repairs, or modifies equipment in compliance with technical manuals and modification orders; assists in the updating of maintenance manuals, records, and supply stock; assists in on-the-job training.

Recommendation

In the vocational certificate category, 3 semester hours in basic AC and DC theory, 3 in basic AC and DC laboratory applications, 3 in radio communications theory, 3 in radio communications laboratory, 3 in transmitter/receiver repair, 1 in elementary algebra, 1 in basic amplifer circuit theory, and 1 in instrument applications laboratory, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in radio communications theory, 3 in introductory electronics, 1 in basic DC circuit theory, 1 in basic AC circuit theory, 1 in semiconductor theory, and additional credit in electronics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the upper-division baccalaureate category, 3 semester

hours in technical electives. In an electrician apprentice training program, 500 clock hours of experience and 36 contact hours of related instruction (3/76).

MOS–35L–002

AVIONIC COMMUNICATIONS EQUIPMENT REPAIRER

35L10

35L20

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–35M–001

AVIONIC NAVIGATION EQUIPMENT REPAIRMAN

35M20

Exhibit Dates: 10/73–8/77.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 353 (Avionics Maintenance).

Description

Performs preventive maintenance and repair to the component level on such items as marker beacons, radio direction finders, VOR and glidescopes, omnirange receivers, position fixers, airborne TACAN, and ground beacons; locates and diagnoses causes of equipment malfunction or nonfunction with common and specialized handtools and test equipment; determines repair procedures; interprets schematic diagrams and technical literature; traces circuitry; tests, aligns, and adjusts equipment to insure maximum operating efficiency; replaces faulty assemblies and components; tests-operates repaired equipment for proper functioning; alters and modifies equipment using prescribed procedures; performs preventive maintenance on tools and test equipment; inspects completed work for accuracy and completeness; keeps maintenance records and completes supply forms.

Recommendation

In the vocational certificate category, 6 semester hours in basic electronics, 6 in avionic instrumentation, 3 in basic AC/DC theory, 3 in basic AC/DC laboratory applications, 2 in systems maintenance and repair, and 1 in elementary algebra, for a total of 21 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 2 in electronic systems, 1 in DC circuit analysis, 1 in AC circuit analysis, 1 in electron devices, 1 in instrumentation, and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in technical electives. In an electrician apprentice training program, 500 clock hours of experience and 36 contact hours of related instruction (3/76).

MOS–35M–002

AVIONIC NAVIGATION AND FLIGHT CONTROL EQUIPMENT REPAIRER

35M10

35M20

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–35N–001

AVIONIC FLIGHT CONTROL EQUIPMENT REPAIRMAN

35N20

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 35N was discontinued and its functions were incorporated into MOS 35M, Avionic Navigation and Flight Control Equipment Repairer, or MOS 35P, Avionic Equipment Maintenance Supervisor.)

Career Management Field: 35 (Electrical/Electronic Equipment Maintenance), *subfield* 353 (Avionics Maintenance).

Description

Performs complex maintenance procedures on avionic flight systems, such as automatic flight control, stability augmentation, aircraft magnetic compass, and computer-assist navigational equipment; troubleshoots equipment using concepts in basic electronics, electromechanical devices, and schematic tracing; uses specialized handtools and test equipment to perform diagnostic tests of malfunctions down to discrete circuit components; tests, aligns, and adjusts equipment to insure maximum operating efficiency; replaces parts and performs repairs or modifications on equipment in accordance with specified standards; assists in the updating of maintenance manuals, records, and supply stock; assists in on-the-job training.

Recommendation

In the vocational certificate category, 3 semester hours in basic electronics, 3 in radio frequency circuit analysis, 3 in radio frequency circuit laboratory applications, 3 in basic AC/DC theory, 3 in basic AC/DC laboratory applications, 2 in electromechanical systems, 1 in elementary algebra, 1 in basic amplifier circuit concepts, and 1 in instrument applications laboratory, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics theory, 3 in basic electronics laboratory applications, 2 in electronic circuits and systems, 1 in elementary algebra, and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) or in technical electives. In an electrician apprentice training program, 500 clock hours of experience and 36 contact hours of related instruction (3/76).

MOS–35P–001

AVIONIC EQUIPMENT MAINTENANCE SUPERVISOR

35P40

35P50

Exhibit Dates: 10/73–8/77.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 353 (Avionics Maintenance).

Description

Summary: Supervises the maintenance of avionic equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20 of at least one of the following MOS's: 35K (Avionics Mechanic), 35L (Avionic Communications Equipment Repairman), 35M (Avionic Navigation Equipment Repairman), 35N (Avionic Flight Control Equipment Repairman), 35R (Avionic Radar Equipment Repairman); assists in the diagnosis of complex malfunctions; inspects and checks maintenance work for adequacy and suitability; implements quality and production control procedures; assigns duties to personnel; instructs in maintenance practices, procedures, and techniques; conducts on-the-job training; assists in complex equipment modification. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises, administers, and coordinates all avionic maintenance activities for 30 or more mechanics and repairmen; plans and schedules maintenance; keeps equipment records; requisitions spare parts and supplies; reviews and takes appropriate action on all technical information and directives; provides technical advice.

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in maintenance supervision and 3 in advanced electronics systems operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronic communication devices, 3 in personnel supervision, and 3 in human relations, for a total of 9 semester hours (3/76).

Recommendation, Skill Level 50

In the vocational certificate category and in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in shop management, and 3 in introduction to management, for a total of 12 semester hours (3/76).

MOS–35P–002

AVIONIC EQUIPMENT MAINTENANCE SUPERVISOR

35P30

35P40

35P50

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–35R–001

AVIONIC RADAR EQUIPMENT REPAIRMAN

35R20

Exhibit Dates: 10/73–8/77.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 353 (Avionics Maintenance).

Description

Inspects, tests, and performs preventive maintenance and repair to the module and component level on items such as radar altimeters, terrain following/avoidance radars, doppler navigation radars, and station-keeping radars; test-operates malfunctioning equipment; refers to circuit diagrams; performs detailed tests using voltmeters, ohmmeters, signal generators, oscilloscopes, and other test instruments to localize and isolate the faulty stage or component; determines extent of maintenance required; replaces faulty components to include transistors, solid-state devices, electronic switches, resistors, and capacitors; adjusts relays, dials, and controls using common or specialized handtools; cleans components of dust, rust, and foreign matter; test-operates, aligns, and comparison-checks repaired equipment with specialized test equipment; alters or modifies equipment using prescribed procedures; advises superiors about modifications and maintenance changes; keeps tools and test equipment in operating condition; keeps and completes maintenance and supply forms.

Recommendation

In the vocational certificate category, 6 semester hours in basic electronics, 6 in basic electronics laboratory applications, 6 in avionics instrumentation, 2 in systems maintenance and repair, and 1 in elementary algebra, for a total of 21 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in introductory electronics, 2 in electronic systems, 1 in DC circuit analysis, 1 in AC circuit analysis, 1 in electron devices, 1 in instrumentation, 1 in radar systems, and additional credit in electronics and technical mathematics on the basis of institutional evaluation, for a minimum total of 10 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (electronics) or 3 in technical electives. In an electrician or electronic technician apprentice

training program, 1,000 clock hours of experience and 72 contact hours of related instruction (3/76).

MOS–35R–002

AVIONIC SPECIAL EQUIPMENT REPAIRER

35R10

35R20

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–35S–001

ELECTRONIC BIOMEDICAL EQUIPMENT REPAIRMAN

35S20

35S40

Exhibit Dates: 10/74–Present.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 354 (Medical Equipment Maintenance).

Description

Summary: Repairs or supervises the repair of complex medical equipment (with the exception of x-ray and ancillary equipment) that functions on the basis of electrical, electronic, hydraulic, pressurized gas, steam, and optical principles. *Skill Level 20:* Able to perform the duties required for 35G20 (Biomedical Equipment Repairman); assembles, inspects, installs, adjusts, lubricates, and test-operates medical equipment, including electrocardiographs, electroencephalographs, patient monitoring systems, pulmonary equipment, short-wave diathermy apparatus, blood cell corenters, spectrophotometers, ultrasonic therapy and treatment apparatus, heart-lung machines, and radioisotope monitoring and measuring equipment; troubleshoots faulty equipment using volt-ohm-milliameters, signal generators, oscilloscopes, solid-state testing apparatus, and other test equipment; repairs faulty equipment and insures proper calibration; renders technical advice and assistance to medical personnel as required; prepares and explains operating instructions, circuit diagrams, and technical literature; prepares maintenance forms and reports. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises repair, inspection, and testing of electronic medical equipment; assigns duties to subordinate personnel and instructs them in proper repair procedures and techniques; plans, executes, and evaluates programs to assure workload quality and priorities; prepares reports of unit operations; recommends new or improved procedures for receipt, storage, inspection, testing, repair, and modification of equipment.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in medical equipment repair, 5 in technical mathematics, 3 in tube theory and laboratory, 3 in DC theory and laboratory, 3 in AC theory and laboratory, 3 in transistor theory and laboratory, 3 in instrumentation techniques, 3 in physics, 3 in shop practices, 2 in digital theory and laboratory, 2 in anatomy and physiology, 2 in chemistry, 1 in medical terminology, and 1 in medical equipment safety practices and procedures, for a total of 40 semester hours. In the upper-division baccalaureate category, credit in biomedical engineering on the basis of institutional evaluation (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in medical equipment repair, 5 in technical mathematics, 3 in tube theory and laboratory, 3 in DC theory and laboratory, 3 in AC theory and laboratory, 3 in transistor theory and laboratory, 3 in instrumentation techniques, 3 in physics, 3 in shop practices, 2 in personnel supervision, 2 in human relations, 2 in digital theory and laboratory, 2 in chemistry, 2 in anatomy and physiology, 2 in maintenance management, 2 in technical report writing, 1 in medical terminology, and 1 in medical equipment safety practices and procedures, for a total of 48 semester hours. In the upper-division baccalaureate category, credit in biomedical engineering on the basis of institutional evaluation (5/76).

MOS–35T–001

X-RAY BIOMEDICAL EQUIPMENT REPAIRMAN

35T20

35T40

Exhibit Dates: 10/74–Present.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 354 (Medical Equipment Maintenance).

Description

Summary: Repairs all types of medical x-ray equipment which functions on the basis of mechanical, hydraulic, electrical, electronic, solid state, and optical principles. *Skill Level 20:* Able to perform the duties of MOS 35G20 (Biomedical Equipment Repairman); inspects, installs, adjusts, maintenance-calibrates, test-operates, rebuilds, and maintains all types of x-ray equipment and ancillary equipment, such as rapid film changers, dye contrast injection apparatus, cineradiography, closed-circuit television, and image intensifiers; employs test equipment such as volt-ohm-milliameters, vacuum tube or solid-state voltmeters, digital voltmeters, signal generators, and oscilloscopes to localize malfunction to the component level; determines utility requirements such as water, waste, or electrical lines and outlets for equipment; provides technical advice and assistance to medical personnel as required; prepares and explains operating instructions, circuit diagrams, technical literature, and reports. *Skill Level 40:* Able to perform the duties required for Skill level 20; assigns duties to subordinate personnel; instructs them in proper repair procedures and techniques; plans, executes, and evaluates programs to assure workload quality and priorities; recommends new or improved procedures for receipt, storage, inspection, testing, repair, and modification of equipment.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 5 semester hours in technical mathematics, 3 in x-ray equipment repair, 3 in medical equipment repair, 3 in tube theory and laboratory, 3 in DC circuit theory and laboratory, 3 in AC circuit theory and laboratory, 3 in transistor theory and laboratory, 3 in physics, 3 in instrumentation techniques, 3 in shop practices, 2 in digital theory and laboratory, 2 in anatomy and physiology, 2 in chemistry, 1 in medical terminology, and 1 in medical equipment safety practices, for a total of 40 semester hours. In the upper-division baccalaureate category and the graduate degree category, credit in bio-medical engineering on the basis of institutional evaluation (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 5 semester hours in technical mathematics, 3 in x-ray equipment repair, 3 in tube theory and laboratory, 3 in DC circuit theory and laboratory, 3 in AC circuit theory and laboratory, 3 in transistor theory and laboratory, 3 in physics, 3 in instrumentation techniques, 3 in shop practices, 2 in digital theory and laboratory, 2 in anatomy and physiology, 2 in chemistry, 2 in personnel supervision, 2 in human relations, 2 in technical report writing, 2 in maintenance management, 1 in medical terminology, and 1 in medical equipment safety practices, for a total of 48 semester hours. In the upper-division baccalaureate category and in the graduate degree category, credit in biomedical engineering on the basis of institutional evaluation (5/76).

MOS–35U–001

BIOMEDICAL EQUIPMENT MAINTENANCE CHIEF

35U50

Exhibit Dates: 10/74–Present.

Career Management Field: 35 (Electrical/Electronic Instrument Maintenance), *subfield* 354 (Medical Equipment Maintenance).

Description

Able to perform the duties of MOS 35S40 (Electronic Biomedical Equipment Repairman) or 35T40 (X-Ray Biomedical Equipment Repairman); serves as a first-line supervisor in a medical equipment maintenance section; supervises all levels of maintenance on all types of medical equipment; plans and lays out medical maintenance facilities; plans workflow, assigns duties, and instructs in maintenance work techniques; makes periodic checks of equipment to determine degree of maintenance effectiveness; establishes and maintains procedures to assure an effective preventive maintenance program for medical equipment; enforces hospital safety directives that apply to medical equipment and associate electronic test equipment; reacts expeditiously to emergency breakdowns of equipment utilized in electrically sensitive patient areas; supervises or assists in establishing reports control system, preparation of equipment maintenance reports, and surveys of medical equipment; provides advice on the advantages of contract maintenance versus in-house maintenance for specific medical systems; advises procurement personnel on function and safety capabilities of technical medical equipment and systems; recommends replacement of medical equipment based upon usage factors and personal experience.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in maintenance management, 3 in personnel supervision, 3 in technical report writing, and 3 in shop management, for a total of 12 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, and 3 in industrial arts education (electronics), and additional credit in biomedical engineering on the basis of institutional evaluation for a minimum total of 12 semester hours. In the graduate degree category, credit in biomedical engineering on the basis of institutional evaluation. NOTE: Award additional credit on the basis of previously assigned MOS—either 35S40 (Electronic Biomedical Equipment Repairman) or 35T40 (X-ray Biomedical Equipment Repairman) (6/76).

MOS–36C–001

TELEPHONE INSTALLER AND LINEMAN (LINEMAN)

36C20

36C40

36C50

Exhibit Dates: 10/73–Present.

Career Management Field: 36 (Wire, Antenna, and Central Office Maintenance).

Description

Summary: Can identify tools, materials, hardware, and supply nomenclature used in wood pole construction and, to a limited extent, in

formal underground systems; climbs and works on wood structures, using tools and techniques compatible with industry practice; has some knowledge of telephone line cable practices; MOS 36C equates directly with the trade classification of installer as used by both the telephone and cable television industries. *Skill Level 20:* Knows line work processes, including safety practices, first aid procedures, and tools and equipment nomenclature; performs maintenance on wood pole lines and, to a limited degree, formal underground systems. *Skill Level 40:* Able to perform the duties required for Skill Level 20; functions as a telephone installer crewleader, supervising form 8 to 32 persons (one to four pole line construction teams); makes routine maintenance checks from a prescribed list; uses some specialized installation and operational techniques; records work and personnel information. NOTE: May have progressed to 36C40 from 36C20 or 36K40 (Tactical Wire Operations Specialist). *Skill Level 50:* Able to perform the duties required for Skill Level 40; could serve as a telephone installer foreman, if this position existed in industry, or as an installer-dispatcher with a large telephone system; installs and repairs cables; follows circuit charts; prepares technical and administrative reports; keeps limited records; supervises training. NOTE: May have progressed to 36C50 from 36C40, 36D40, 36D50 (Antennaman), 36E40 (Cable Splicer), or 36H50 (Dial Central Office Repairman).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph lineman). In the lower-division baccalaureate/associate degree category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph lineman) and 3 in telephone installation. In a telephone lineman or a cable television apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. In a construction lineman or a utility lineman apprentice training program, 500 clock hours of experience and 30 contact hours of related instruction. In a telephone cable splicer or a network lineman apprentice training program, 250 clock hours of experience and 20 contact hours of related instruction. NOTE: The skills and knowledge of this MOS classification are usually regarded by industry as achieved by a trainee program rather than through formal apprenticeship (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph lineman) and 3 in cable communications systems. In the lower-division baccalaureate/associate degree category, 6 semester hours in pole and line construction for radio and television broadcasting, telephone, and telegraph lineman), 3 in telephone installation, 2 for field experience in education, and 3 in personnel supervision, for a total of 14 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/75).

Recommendation, Skill Level 50

In the vocational certificate category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph lineman) and 6 in cable communications systems. In the lower-division baccalaureate/associate degree category, 6 semester hours in pole and line construction (for radio and television broadcasting, telephone, and telegraph lineman), 6 in personnel supervision, 4 in telephone installation, and 4 for field experience in education, for a total of 20 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (2/75). In March 1976, 36C50 was reevaluated and the following additional recommendation was made: In the upper-division baccalaureate category, 3 semester hours in introduction to management, 6 for field experience in management, and 3 in human relations, for a minimum total of 12 semester hours; *(if the duty assignment was first sergeant or operations sergeant at Grade E-8,* 3 additional semester hours in personnel management, for a total of 15 semester hours; and/or *if the duty assignment was chief instructor at a formal training facility or chief training NCO at Grade E-9,* 3 additional semester hours for an internship in education, for a maximum total of 15 or 18 semester hours (3/76).

MOS–36D–001

ANTENNAMAN

36D20
36D40
36D50

Exhibit Dates: 3/74–Present.

Career Management Field: 36 (Wire, Antenna, and Central Office Maintenance).

Description

Summary: Erects, anchors, and braces antenna towers complete with electrically controlled directional or fixed antennas; makes electrical connections of control and transmission cables between antennas and ground equipment; inspects, repairs, and tests electrical devices used to rotate antennas. *Skill Level 20:* Performs basic procedures and techniques involved in the installation of pole and steel tower antennas; bores holes and erects poles using motorized equipment; transports, assembles, and disassembles antenna towers using manual and motorized equipment; constructs antenna base and braces towers; adjusts tower guy wires for proper tension; has a basic knowledge of tower and antenna configuration for different operational requirements. *Skill Level 40:* Able to perform the duties required for Skill Level 20; organizes, supervises, and coordinates antenna installation, maintenance, and rehabilitation; instructs 8–30 subordinate antennamen in approved techniques for antenna installation and maintenance; estimates time, supplies, personnel, and equipment required for installation of antennas and towers. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as the principal noncommissioned officer of an antenna maintenance team in a unit operating independently (without an officer); performs technical and administrative duties including writing reports, providing technical guidance to personnel related to complex construction and rehabilitation of antenna installations, and interpreting new technical literature.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in heavy equipment operation (boring and tower erection equipment), 3 in basic electricity (DC circuits), 3 in basic electrical motors and servos, and 3 in antennas (basic electronics), for a total of 12 semester hours. In a radio-television repairman apprentice training program, 500 clock hours of experience in antenna installation and maintenance (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in heavy equipment operation (boring and tower erection equipment), 3 in basic electricity (DC circuits), 3 in basic electrical motors and servos, 3 in antennas (basic electronics), 3 in introduction to management, and 3 in human relations, for a total of 18 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (3/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (3/76).

MOS–36E–001

CABLE SPLICER

36E20
36E40

Exhibit Dates: 10/73–Present.

Career Management Field: 36 (Wire, Antenna, and Central Office Maintenance).

Description

Summary: Splices all types of communication cables. *Skill Level 20:* Prepares, tests, and joins insulated conductors in multiple-conductor cables; splices and seals spliced openings on nonquadded, guadded, coaxial, and video cables in aerial, trenched, underground, submarine, or building installations; tests, troubleshoots, and repairs pressurized and nonpressurized multiconductor telephone cable; locates and installs cable terminals; terminates and connects cables to distribution boxes and distribution frames; operates mechanical ladders and hydraulic booms; climbs poles and operates pump equipment; repairs cables and cable terminals, complying with standard splicing practices and safety procedures; interprets line route maps, displays, circuit diagrams, detail splice diagrams, cable route prints, cable plant records, splicing diagrams, and symbols commonly used in cable communications system diagrams; employs cable splicer hand tools, electrical test sets, cable splicer auxiliary equipment, and common construction tools. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises 4–10 cable splicers; demonstrates splicing techniques and procedures; interprets specifications on the construction of manholes, cable vaults, and cable huts; prepares central office cable records, detail splicing diagrams, and cable route prints; reviews, consolidates, and prepares technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in electrical cable installation and 3 in electronics fundamentals (DC circuits). In a cable splicer apprentice training program, 500 clock hours of experience (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in electrical cable installation, 3 in electronics fundamentals (DC circuits), 3 in introduction to management, and 3 in human relations, for a total of 12 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 20 because additional skills are administrative and supervisory in nature (3/76).

MOS–36G–001

MANUAL CENTRAL OFFICE REPAIRMAN

36G20

Exhibit Dates: 10/73–Present.

Career Management Field: 36 (Wire, Antenna, and Central Office Maintenance).

Description

Maintains manual central office telephone exchange equipment; wires mainframe, switchboard, relay racks, and related units; performs minor maintenance on equipment including replacement or repair of broken wires, jumpers, and cables; adjusts openings between contacting parts; tests and changes spring tensions; conducts operating and electrical tests and compares results with specified standards; reconditions components, replaces parts, and rewires equipment; reads circuit and wiring diagrams; computes voltage, amperage, and resistance factors involving simple algebraic formulas.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in basic electricity. Advanced standing in a telephone exchange repairman apprentice training program on the basis of employer or trade association performance examination (3/76).

MOS–36H–001

DIAL CENTRAL OFFICE REPAIRMAN

36H20
36H40
36H50

Exhibit Dates: 10/73–Present.

Career Management Field: 36 (Wire, Antenna, and Central Office Maintenance).

Description

Summary: Installs, maintains, and repairs inside and outside plant dial telephone equipment. *Skill Level 20:* Installs wiring; mechanically secures mainframes; conducts tests; inspects, adjusts, and test relays; troubleshoots and repairs or replaces defective components such as relays, wiring, and terminal boards; assists in identifying cable troubles. NOTE: May have progressed to 36H20 from 36G20 (Manual Central Office Repairman). *Skill Level 40:* Able to perform the duties required for Skill Level 20; plans installation, operation, and maintenance procedures and techniques; normally supervises 15 to 25 persons; allocates resources; interprets wiring diagrams, specifications, color-code charts, and technical literature pertaining to wire communications systems; demonstrates installation, operation, and maintenance techniques; diagnoses unusual cases of equipment malfunction. *Skill Level 50:* Able to perform the duties required for Skill Level 40; normally supervises more than 25 persons; statistically analyzes the system for planning and operational loading; prepares work schedules, directs record keeping, requisitions supplies; reviews, consolidates, and prepares technical and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in basic electricity/electronics with laboratory. In a P.B.X. installer (telephone and telegraph) apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a telephone repairman apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction. In a central office installer-repairman apprentice training program, 500 clock hours of experience and 36 contact hours of related instruction (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in basic electricity/electronics with laboratory. In the lower-division baccalaureate/associate degree category, 4 semester hours in basic electricity/electronics with laboratory, 3 in introduction to management, 3 in personnel supervision, and 3 in human relations, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 semester hours in communications electricity and 3 for field experience in management. In a telephone repairman or P.B.X. installer (telephone and telegraph) apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction. In a central office installer-repairman apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (3/76).

Recommendation, Skill Level 50

In the vocational certificate category, 6 semester hours in basic electricity/electronics with laboratory. In the lower-division baccalaureate/associate degree category, 4 semester hours in basic electricity/electronics with laboratory, 3 in introduction to management, 3 in personnel supervision, 3 in human relations, and 3 in technical writing, for a total of 16 semester hours. In the upper-division baccalaureate category, 3 semester hours in communications electricity and 6 for field experience in management, for a total of 9 semester hours. The recommendation for advanced standing in an apprentice training program is the same as that for Skill Level 40 because additional skills are administrative and supervisory in nature (3/76).

MOS–36K–001

TACTICAL WIRE OPERATIONS SPECIALIST (FIELD WIREMAN)

36K20
36K40

Exhibit Dates: 10/73–Present.

Career Management Field: 36 (Wire, Antenna, and Central Office Maintenance).

Description

Summary: Installs and maintains field wire communications systems and performs related operating duties in field telephone centers. *Skill Level 20:* Installs and maintains field telephones and switchboards; climbs poles and constructs field wire lines; recovers and services field wire; uses grid and line route maps; employs lineman's common hand tools and testing devices; locates and repairs shorts, grounds, opens, and other damage in wire communications systems; operates switchboards and prepares, edits, transmits, and routes messages. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises 4–8 field wiremen in the installation, operation, and maintenance of field wire communications systems; allocates resources and assigns workloads; demonstrates techniques of wire and cable installation and maintenance; interprets maps, overlays, and wire construction requirements.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC current) (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in basic electricity (DC current) and 3 in map reading. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity (DC current), 3 in map reading, 3 in introduction to management, and 3 in human relations, for a total of 12 semester hours (3/76).

MOS–36L–001

ELECTRONIC SWITCHING SYSTEMS REPAIRMAN

36L20
36L30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–41B–001

TOPOGRAPHIC INSTRUMENT REPAIRMAN

41B20

Exhibit Dates: 10/73–2/77.

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 812 (Surveying).

Description

Maintains, disassembles, repairs, tests, adjusts, and reassembles all topographic and cartographic instruments.

Recommendation

In the vocational certificate category, 22 semester hours in surveying and cartographic instrument repair and 2 in use and care of tools and equipment. In the lower-division baccalaureate/associate degree category, 4 semester hours in instrument repair and 2 in use and care of tools and equipment (12/75).

MOS–41B–002

TOPOGRAPHIC INSTRUMENT REPAIR SPECIALIST

41B10
41B20

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–41C–001

FIRE CONTROL INSTRUMENT REPAIRMAN

41C10
41C20
41C40

Exhibit Dates: 10/73–8/75.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 636 (Armament Maintenance).

Description

Summary: Performs maintenance on fire control instruments and related equipment. *Skill Level 10:* Assists in maintenance, repair, and modification of binoculars, aiming circles, telescopes, range finders, and periscopes; uses hand tools, power tools, and test equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; inspects, tests, repairs, and synchronizes fire control systems; tests, adjusts, and repairs optical systems; checks and repairs electrical circuits, using instruments such as ohmmeters, voltmeters, and multi-voltage test sets; conducts operating tests to insure that instruments perform within specified tolerances and performance standards. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises subordinate personnel; plans the use of facilities and equipment; administers shop safety program; requisitions parts, equipment, and supplies; conducts final operating instrument tests.

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in use and care of hand and power tools (3/75).

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in use and care of hand and power tools and 3 in applied physics. In the lower-division baccalaureate/associate degree category, 3 semester hours in applied physics and additional credit on the basis of institutional evaluation (3/75).

Recommendation, Skill Level 40

In the vocational certificate category, 1 semester hour in use and care of hand and power tools, 1 in records administration, and 3 in applied physics, for a total of 5 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in shop management, 3 in personnel supervision, and 3 in

applied physics, and additional credit on the basis of institutional evaluation, for a minimum total of 7 semester hours. In the upper-division baccalaureate category, 3 semester hours in administration and additional credit on the basis of institutional evaluation (3/75).

MOS–41C–002

FIRE CONTROL INSTRUMENT REPAIRMAN

41C10
41C20
41C30
41C40

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 634 (Armament Maintenance).

Description

Summary: Supervises or performs maintenance on fire control instruments and related equipment. *Skill Level 10:* Performs maintenance on fire control instruments and related equipment including binoculars, aiming circles, telescopes, rangefinders, and mechanical/electrical ballistic computers and output devices mounted in vehicles; utilizes hand and power tools and testing equipment in the removal, repair, replacement, and synchronization of fire control systems used in tanks and self-propelled and towed artillery; tests optical instruments for conditions such as parallax, lens aberration, tilt of reticle, and deviations in line of sight; traces circuits by referring to schematic diagrams; tests instruments to insure performance within specified standards and tolerances. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel; performs preliminary and final inspection of fire control instruments and related equipment; is a first-line supervisor in direct and general support units; conducts on-the-job training; prepares maintenance records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises fire control instrument maintenance activities; organizes the shop layout; establishes and administers a shop safety program; requisitions repair parts and materials; uses technical publications; performs final operating tests. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises fire control instrument and fire control computer maintenance activities. NOTE: May have progressed to 41C40 from 41C30 or 34G30 (Fire Control Computer Repairman).

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in applied physics, 3 in optical instrument repair laboratory, and 1 in use and care of tools, for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, a minimum of 3 semester hours in applied physics, and additional credit in applied physics, optics, and instrument repair on the basis of institutional evaluation. In an industrial pyrometry and instrument repairman or recording instruments maintenance and repairman apprentice training program, 1,000 clock hours of experience and 60 contact hours of related instruction, *if the duty assignment of fire control instrument repairman was held for a minimum of one year* (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in applied physics, 3 in optical instrument repair laboratory, 1 in use and care of tools, and 1 in records administration, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, a minimum of 3 semester hours in applied physics and additional credit in applied physics, optics, and instrument repair on the basis of institutional evaluation. In an industrial pyrometry and instrument repairman or recording instruments maintenance and repairman apprentice training program, 1,300 clock hours of experience and 60 contact hours of related instruction, *only if the duty assignment of fire control instrument repairman was held for a minimum of one year* (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in applied physics, 3 in optical instrument repair laboratory, 3 in shop practices and procedures, 1 in use and care of tools, and 1 in records administration, for a total of 11 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in applied physics, 2 in shop practices and procedures, 2 in personnel supervision, and 1 in records administration, and additional credit in applied physics, optics, and instrument repair on the basis of institutional evaluation, for a minimum total of 8 semester hours. In an industrial pyrometry and instrument repairman or recording instruments maintenance and repairman apprentice training program, 1,300 clock hours of experience and 60 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in applied physics, 3 in optical instrument repair laboratory, 3 in shop practices and procedures, 1 in use and care of tools, and 1 in records administration, for a total of 11 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in applied physics, 3 in personnel supervision, 2 in shop practices and procedures, and 1 in records administration, and additional credit in applied physics, optics, and instrument repair on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management. In an industrial pyrometry and instrument repairman or recording instruments maintenance and repairman apprentice training program, 1,300 clock hours of experience and 60 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS–41E–001

CAMERA REPAIRMAN

41E20

Exhibit Dates: 10/73–2/77.

Career Management Field: 72 (Telecommunications and Audio Visual), *subfield* 722 (Audio Visual).

Description

Performs maintenance and repair on still and motion picture cameras and on darkroom equipment; demonstrates a knowledge of light, light sources, darkroom procedures, films, photochemistry, and operation of single-lens-reflex, twin-lens-reflex, and large-format cameras (including lens and shutter assemblies, film transport/release mechanisms, and camera bodies).

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in basic photography, 6 for field experience in photography, 3 in audio-visual equipment repair, 3 in troubleshooting concepts, and 3 in use of test equipment, for a total of 21 semester hours (5/76).

MOS–41E–002

AUDIO-VISUAL EQUIPMENT REPAIRMAN

41E10
41E20

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–41F–001

PROJECTOR REPAIRMAN

41F20

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 41F was discontinued and its functions were incorporated into MOS 41E, Audio-Visual Equipment Repairman.)

Career Management Field: 72 (Telecommunications and Audio Visual), *subfield* 722 (Audio Visual).

Description

Inspects, troubleshoots, repairs, and test-operates projection equipment.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in physics of visual phenomena, light, and sound, 6 in troubleshooting concepts, 3 in audio-visual equipment repair, and 3 in use of test equipment, for a total of 15 semester hours (5/76).

MOS–41G–001

SURVEILLANCE PHOTOGRAPHIC EQUIPMENT REPAIRMAN

41G20

Exhibit Dates: 10/73–8/77.

Career Management Field: 26 (Non-Integrated Radar Maintenance), *subfield* 263 (Airborne Surveillance Equipment Repair).

Description

Inspects and test-operates photographic equipment to detect and determine general faults; replaces minor defective parts or replaceable assemblies and adjusts items to operating conditions; disassembles malfunctioning equipment into component assemblies and systems for further inspection; gauges mechanical parts to detect wear and misalignment; straightens or replaces bent mechanical parts and components; replaces and adjusts optical elements; paints and refinishes equipment cases and containers; inspects and tests electrical and electronic equipment to ascertain condition and functioning; repairs electronic circuits associated with cameras; assembles repaired equipment and test-operates and makes adjustments to assure proper functioning; stores tools and testing equipment.

Recommendation

In the vocational certificate category, 1 semester hour in shop practices, 1 in industrial science, 3 in introductory electronics, 2 in AC–DC circuits, 2 in electron devices, 2 in systems maintenance, 2 in intermediate circuits, 1 in electronic instrumentation, and additional credit in machine shop on the basis of institutional evaluation, for a minimum total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic photography, 3 in introductory electronics, 2 in AC–DC circuits, 2 in electron devices, and 1 in electronic instrumentation, for a total of 14 semester hours. In the upper-division baccalaureate category, 6 semester hours in advanced photography. In an electronic technician apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction. In a construction electrician apprentice training program, 1,000 clock hours of experience and 72 contact hours of related instruction (2/76).

MOS–41G–002

AERIAL SURVEILLANCE PHOTOGRAPHIC EQUIPMENT REPAIRER

41G10
41G20

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–41H–001

PHOTOGRAPHIC EQUIPMENT REPAIR CHIEF

41H40

Exhibit Dates: 10/73–3/77. (Effective 3/77, MOS 41H was discontinued and its functions were incorporated into MOS 26T, Radio/Television Systems Specialist, and MOS 84T, TV/Radio Broadcast Operations Chief.)

Career Management Field: 72 (Telecommunications and Audio Visual), *subfield* 722 (Audio Visual).

Description

Able to perform the duties required for 41E20 (Camera Repairman), 41F20 (Projector Repairman), or 41G20 (Surveillance Photographic Equipment Repairman); supervises a photographic equipment repair center consisting of 10 to 20 photographic equipment maintenance personnel; develops procedures and standards and inspects repaired equipment to assure high standards of work performance; assigns duties; applies production line procedures for the maintenance of photographic equipment; corrects improper techniques and procedures and explains proper methods; interprets and explains technical literature and diagrams; requisitions supplies; prepares technical and administrative reports.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic photography, 6 for field experience in photography, 6 in troubleshooting concepts, 3 in use of test equipment, 6 in audio-visual equipment repair, 3 in introductory electronics, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 39 semester hours. In the upper-division baccalaureate category, 3 semester hours in maintenance management or industrial management (5/76).

MOS–41J–001

OFFICE MACHINE REPAIRMAN

41J20
41J40

Exhibit Dates: 10/73–8/75.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 631 (Precision Devices).

Description

Summary: Performs general maintenance on office machines, excluding electronic calculators and accounting equipment. *Skill Level 20:* Diagnoses the causes of malfunctions; repairs, adjusts, cleans, and lubricates office machines; tests machines to determine the effectiveness of adjustments and repairs. *Skill Level 40:* Able to perform the duties required for Skill Level 20; diagnoses more complex malfunctions; supervises maintenance activities; makes final inspections; orders, stores, and distributes parts; establishes shop policies and procedures; supervises a minimum of five persons.

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in office machine repair laboratory. In the lower-division baccalaureate/associate degree category, credit on the basis of institutional evaluation. In a business machines apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in office machine repair. In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, a minimum of 3 semester hours in management and additional credit on the basis of institutional evaluation. Journeyman status (defined as 6,000 clock hours of experience and 432 contact hours of related instruction) as a business machines mechanic (2/75).

MOS–41J–002

OFFICE MACHINE REPAIRMAN

41J10
41J20
41J30
41J40

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 631 (Precision Devices).

Description

Summary: Performs general maintenance on office machines, excluding electronic calculators and accounting equipment. *Skill Level 10:* Assists in maintaining office machines; adjusts office machines. *Skill Level 20:* Able to perform the duties required for Skill Level 10; analyzes condition and operating efficiency of office machines; diagnoses causes of malfunctions; determines maintenance requirements and replaces defective or excessively worn parts and assemblies; disassembles, repairs, cleans, adjusts, tightens, lubricates, reassembles, and test-operates machines. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises the maintenance of office machines; inspects machines with complex malfunctions to determine the extent of repairs required; makes final inspection of machines maintained or repaired by Skill Level 10 and 20 personnel; instructs Skill Level 10 and 20 personnel in general and specialized repair operations; keeps maintenance records. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises office machine maintenance activities of a large unit or in a repair shop; usually supervises a minimum of 14 persons; instructs personnel on repair of non-electric and electric typewriters, adding machines, and calculators.

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in the use and care of hand tools, 2 in shop practices and procedures, 3 in basic electricity, and 3 in office machine repair laboratory, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in use and care of hand tools, 2 in shop practices and procedures, and 3 in basic electricity, for a total of 6 semester hours. In a business machine or office machine repairman apprentice training program, 1,000 clock hours of experience and 60 contact hours of related instruction, *only if the duty assignment of office machine repairman was held for a minimum of one year* (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in use and care of hand tools; 2 in shop practices and procedures, 3 in basic electricity, and 6 in office machine repair laboratory, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in use and care of hand tools, 2 in shop practices and procedures, and 3 in basic electricity, and additional credit in electricity and office machine repair on the basis of institutional evaluation, for a minimum total of 6 semester hours. In a business machine or office machine repairman apprentice training program, 1,300 clock hours of experience and 60 contact hours of related instruction, *only if the duty assignment of office machine repairman was held for a minimum of one year* (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 1 semester hour in use and care of hand tools, 2 in shop practices and procedures, 3 in basic electricity, 9 in office machine repair laboratory, 1 in records administration, and 2 in personnel supervision, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in use and care of hand tools, 2 in shop practices and procedures, 3 in basic electricity, 1 in records administration, and 2 in personnel supervision, and additional credit in electricity, office machine repair, records administration, and personnel supervision on the basis of institutional evaluation, for a minimum total of 9 semester hours. In a business machine or office machine repairman apprentice training program, 1,300 clock hours of experience and 60 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 1 semester hour in use and care of hand tools, 2 in shop practices and procedures, 3 in basic electricity, 9 in office machine repair laboratory, 1 in records administration, and 2 in personnel supervision, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in use and care of hand tools, 2 in shop practices and procedures, 3 in basic electricity, 1 in records administration, and 2 in personnel supervision, and additional credit in electricity, office machine repair, records administration, and personnel supervision on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management. In a business machine or office machine repairman apprentice training program, 1,300 clock hours of experience and 60 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS–41K–001

REPRODUCTION EQUIPMENT REPAIRMAN

41K20

Exhibit Dates: 10/73–2/77.

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 813 (Map Reproduction and Printing).

Description

Repairs printing equipment, including duplicators, offset presses, process cameras, and bindery, platemaking, and other machines.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in use and care of tools, 3 in offset press operation, 3 in process camera operation, 3 in bindery operation, 1 in platemaking operation, and 6 for field experience in graphic arts, and credit in mechanical maintenance on the basis of institutional evaluation, for a minimum total of 19 semester hours (5/76).

MOS–41K–002

REPRODUCTION EQUIPMENT REPAIR SPECIALIST

41K10
41K20

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–42C–001

BRACE SPECIALIST

42C20
42C40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 911 (Prosthetic Appliances).

Description

Summary: Supervises or performs the construction, repair, and adjustment of orthopedic prosthetic appliances. *Skill Level 20:* Designs and constructs prosthetic devices such as braces, splints, corsets, and corrective footwear from impressions, blueprints, sketches, or other types of specifications; makes mold of limb or deformity or draws pattern from measurements; cuts and fashions devices from metal, plastic, and leather, using welding equipment, forge, riveting machine, drill, and handtools; fabricates and constructs artificial limbs; fits assembled appliance to patient; repairs, readjusts, and refits worn or defective appliances. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises fabrication and fitting of orthopedic appliances; organizes work schedules and assigns duties; instructs personnel in work techniques and procedures; inspects completed prostheses to insure construction according to specifications; requisitions, stores, and issues equipment and supplies.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 24 semester hours in orthotic techniques (includes spinal, lower-extremity, and upper-extremity orthotics), 6 in applied design, 3 in anatomy and physiology, and 2 in shop practices, for a total of 35 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 24 semester hours in orthotic techniques (includes spinal, lower-extremity, and upper-extremity orthotics), 6 in applied design, 3 in anatomy and physiology, 3 in human relations, 3 in shop management, and 2 in shop practices, for a total of 41 semester hours (3/76).

MOS–42C–002

ORTHOTIC SPECIALIST

42C10
42C20
42C30
42C40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Designs, fabricates, fits, adjusts, and repairs orthotic divices. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); assists in designing, fabricating, fitting, adjusting, and repairing orthotic appliances; makes impressions of injured body members and fabricates orthotic appliances of metal, plastic, synthetics, resins, plaster, leather, rubber, textiles, and adhesives, using welding, soldering, forging, riveting, sewing, laminating, brazing, woodworking, pattern and template machines and equipment, and all types of power and hand tools; adjusts constructed appliances and fits to patient; repairs, readjusts, reworks, and refits worn and defective appliances. *Skill Level 20:* Able to perform the duties required for Skill Level 10; measures patient in operating room and molds temporary plastic socket; designs, fabricates, and tests experimental devices for which there are no models or standard pattern; adapts techniques to fit local requirements and available equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical guidance for Skill Level 10 and 20 personnel; instructs subordinates in work techniques and procedures; inspects completed appliances. *Skill Level 40:* Able to perform the duties required for Skill Level 30; establishes work priorities; organizes work schedules and assigns duties; supervises the equipment maintenance program; makes sure the shop is safe, clean, and orderly; determines personnel requirements and prepares and conducts training programs; evaluates personnel performance; prepares administrative, technical, and personnel reports; coordinates orthopedic activities with other elements of the medical treatment facility; advises and assists physicians in professional, fiscal, technical, and administrative matters; establishes stock level for supplies and equipment and supervises the requisitioning, storing, and issuing of supplies.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 24 semester hours in orthotic techniques (includes spinal, lower-extremity, and upper-extremity orthotics), 6 in applied design, 2 in anatomy, 2 in shop practices, 1 in physiology, and 1 in kinesiology, for a total of 36 semester hours (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 24 semester hours in orthotic techniques (includes spinal, lower-extremity, and upper-extremity orthotics), 6 in applied design, 3 in clinical orthotics, 2 in anatomy, 2 in shop practices, 1 in physiology, and 1 in kinesiology, for a total of 39 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 24 semester hours in orthotic techniques (includes spinal, lower-extremity, and upper-extremity orthotics), 6 in applied design, 3 in clinical orthotics, 3 in human relations, 2 in anatomy, 2 in shop practices, 1 in physiology, and 1 in kinesiology, for a total of 42 semester hours (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 24 semester hours in orthotic techniques (includes spinal, lower-extremity, and upper-extremity orthotics), 6 in applied design, 3 in clinical orthotics, 3 in human relations, 3 in personnel supervision, 2 in anatomy, 2 in shop practices, 1 in physiology, and 1 in kinesiology, for a total of 45 semester hours. In the upper-division baccalaureate category, 2 semester hours in medical facility management (6/77).

MOS–42D–001

DENTAL REMOVABLE PROSTHETIC SPECIALIST

42D10
42D20
42D40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 911 (Prosthetic Appliances).

Description

Summary: Supervises or performs basic and advanced procedures in the fabrication and repair of removable dental prosthetic appliances. *Skill Level 10:* Performs basic procedures in the fabrication and repair of removable and fixed dental prosthetic appliances. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs advanced removable dental laboratory techniques. *Skill Level 40:* Able to perform the duties required for Skill Level 20; performs with high degree of competency all dental prosthetic techniques; supervises overall operation of a dental laboratory. NOTE: May have progressed to 42D40 from 42D20 or 42F20 (Dental Fixed Prosthetic Specialist).

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in dental anatomy, 3 in dental materials, 5 in complete dentures, and 5 in removable partial dentures, for a total of 16 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 10 semester hours in fixed and removable prosthesis, 9 in dental laboratory, 5 in complete dentures, 3 in dental anatomy, 3 in dental materials, and 1 in ethics of business management, for a total of 31 semester hours (2/75).

MOS–42D–002

DENTAL LABORATORY SPECIALIST

42D10
42D20
42D30
42D40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 911 (Dental).

Description

Summary: Supervises or performs basic and advanced procedures in fabrication and repair of dental prosthodontic appliances. *Skill Level 10:* Able to perform the duties required for 91E10 (Dental Specialist); performs primary procedures in fabrication and repair of removable and fixed dental prosthodontic appliances; reviews and processes prosthodontic prescriptions and consultation requests; prepares and uses basic dental laboratory materials; fabricates casts from preliminary impressions; fabricates final impression trays for complete, immediate complete, removable, and fixed partial dentures; prepares impressions and pours final casts for complete, immediate complete, removable, and fixed partial dentures; fabricates stabilized and nonstabilized occlusion rims for complete, immediate complete, removable, and fixed partial dentures; replaces missing or broken teeth and repairs fractured bases on complete and removable partial dentures. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs basic dental laboratory procedures; uses facebrow and measurements to mount casts on adjustable articulator; employs mold guide, occlusion rims, registrations, markings, and interarch measurements to select denture teeth; fabricates maxillary and mandibular complete dentures using conventional and liquid resin techniques; fabricates immediate complete dentures with surgical templates; fabricates removable partial denture prostheses; modifies dental laboratory techniques to fabricate removable complete and partial dentures for cases with variant interarch and interridge relationships; repairs, relines, rebases, and duplicates removable complete and partial dentures; fabricates and repairs basic orthodontic, pedodontic, periodontic, and surgical appliances; fabricates and repairs conventional fixed partial dentures, including crowns, inlays, and preformed pontics; fabricates transitional fixed partial dentures. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs advanced dental laboratory procedures or assists in managing a small dental laboratory; fabricates ceramic and porcelain fused-to-metal crowns and fixed partial dentures; fabricates fixed and removable precision appliances; fabricates complex orthodontic, pedodontic, periodontic, and surgical appliances; assists in fabricating maxillofacial appliances; performs quality control procedures; establishes work priorities and assigns duties; organizes work schedules; demonstrates and explains work techniques and procedures to subordinates; evaluates personnel performance; supervises operational maintenance program of laboratory equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in managing a large

dental laboratory or a section of a Regional Dental Activity; advises and assists dentists in personnel matters, supply economy procedures, and fiscal, technical, and administrative matters; prepares administrative and technical reports.

Recommendation, Skill Level 10
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in anatomy and tooth morphology, 1 in dental materials, and 1 in complete dentures, for a total of 4 semester hours (6/77).

Recommendation, Skill Level 20
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in complete dentures, 3 in partial dentures, 3 in fixed restorative, 2 in anatomy and tooth morphology, 1 in dental anatomy, and 1 in dental materials, for a total of 14 semester hours (6/77).

Recommendation, Skill Level 30
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in complete dentures, 4 in dental ceramics, 3 in partial dentures, 3 in fixed restorative, 2 in anatomy and tooth morphology, 2 in orthodontic procedures, 2 in dental anatomy, 1 in dental materials, and 1 in dental anatomy (occlusion), and additional credit in personnel supervision, for field experience in management, and in communication skills on the basis of institutional evaluation, for a minimum total of 22 semester hours (6/77).

Recommendation, Skill Level 40
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in complete dentures, 4 in dental ceramics, 3 in partial dentures, 3 in fixed restorative, 2 in anatomy and tooth morphology, 2 in orthodontic procedures, 2 in dental anatomy, 2 in personnel supervision, 2 for field experience in management, 2 in oral communication skills, 1 in health care management, 1 in dental materials, and 1 in dental anatomy (occlusion), for a total of 29 semester hours (6/77).

MOS–42E–001

OPTICAL LABORATORY SPECIALIST

42E20
42E40
42E50

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 911 (Prosthetic Appliances).

Description
Summary: Supervises or performs the preparation of prescription lenses. *Skill Level 20:* Makes, duplicates, and inserts prescription lenses in spectacle frames and gas masks. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises optical laboratory operations. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises the functions of the optical laboratory section of a medical depot, providing technical guidance to personnel repairing complex optical equipment; prepares technical, administrative, and personnel reports.

Recommendation, Skill Level 20
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in physics and 12 for an optical internship (2/75).

Recommendation, Skill Level 40
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in physics, 6 in management and supervision, and 15 for an optical internship, for a total of 24 semester hours (2/75).

Recommendation, Skill Level 50
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in physics, 9 in management and supervision, and 15 for an optical internship, for a total of 27 semester hours (2/75).

MOS–42E–002

OPTICAL LABORATORY SPECIALIST

42E10
42E20
42E30
42E40
42E50

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 913 (Health Services).

Description
Summary: Makes prescription lenses or supervises optical laboratories. *Skill Level 10:* Makes, duplicates, and inserts prescription lenses; selects proper stock to fill requirements of spectacle prescription; computes and records curvature and thickness and marks lenses for surfacing; prepares lenses for blocking and surfacing; grinds and polishes lenses to prescribed specifications; locates and identifies optical center, optical axis, and cutting line on lenses; chucks lenses for edging; edges lenses to correct size and shape; hardens glass lenses to required impact resistance; selects and assembles frame components; mounts lenses and aligns frames; prepares completed spectacles for shipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; edits prescriptions and maintains records of prescriptions received by optical unit; calculates and records amount of prism required to permit necessary decentration; calculates and records distance required between top of bifocal and trifocal segments and distance-optical-center to produce prescribed segment height; dyes plastic lenses to specified tints; maintains files of completed spectacle prescriptions; prepares surface work sheets for plastic lens surfacing; marks and blocks plastic lenses for surfacing; applies lens coating; calculates and records positional effective lens power; maintains inventory of supplies and equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises a small optical laboratory; inspects completed spectacles for compliance with prescription requirements and quality standards; assigns duties and trains subordinates in work techniques and procedures; determines stock levels; maintains supply records; requisitions, stores, and issues supplies; supervises preventive maintenance of equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a medium-sized optical laboratory; maintains records of cost data and expenditures; makes sure the laboratory is safe, clean, and orderly; supervises quality control procedures; establishes work priorities; organizes work schedules; evaluates personnel performance; plans layout of working areas; prepares technical, personnel, and administrative reports; coordinates activities of the optical laboratory with medical treatment facilities; advises and assists professionals in fiscal, technical, and administrative matters. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises a large optical laboratory; prepares periodic laboratory reports; determines manpower requirements; drafts budget estimates; prepares operating procedures for optical unit.

Recommendation, Skill Level 10
In the lower-division baccalaureate/associate degree category, 10 semester hours for an optical laboratory practicum, 8 in optical laboratory procedures, and 5 in physics (optics), for a total of 23 semester hours (6/77).

Recommendation, Skill Level 20
In the lower-division baccalaureate/associate degree category, 10 semester hours for an optical laboratory practicum, 8 in optical laboratory procedures, 5 in physics (optics), 1 in anatomy and physiology, and 1 in office procedures, for a total of 25 semester hours (6/77).

Recommendation, Skill Level 30
In the lower-division baccalaureate/associate degree category, 10 semester hours for an optical laboratory practicum, 8 in optical laboratory procedures, 5 in physics (optics), 3 in office procedures, 1 in anatomy and physiology, and 1 in personnel supervision, for a total of 28 semester hours (6/77).

Recommendation, Skill Level 40
In the lower-division baccalaureate/associate degree category, 10 semester hours for an optical laboratory practicum, 8 in optical laboratory procedures, 5 in physics (optics), 3 in office procedures, 3 in personnel supervision, 3 for field experience in management, and 1 in anatomy and physiology, for a total of 33 semester hours (6/77).

Recommendation, Skill Level 50
In the lower-division baccalaureate/associate degree category, 10 semester hours for an optical laboratory practicum, 8 in optical laboratory procedures, 5 in physics (optics), 3 in office procedures, 3 in personnel supervision, 3 for field experience in management, 3 in introduction to management, and 1 in anatomy and physiology, for a total of 36 semester hours. In the upper-division baccalaureate category, 3 semester hours in medical facility management and 3 in management problems (6/77).

MOS–42F–001

DENTAL FIXED PROSTHETIC SPECIALIST

42F20

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 42F was discontinued and its functions were incorporated into MOS 42D, Dental Laboratory Specialist.)

Career Management Field: 91 (Medical), *subfield* 911 (Prosthetic Appliances).

Description
Able to perform the duties required for 42D10 (Dental Removable Prosthetic Specialist); fabricates and repairs fixed prosthodontic appliances; interprets dentists/prescriptions; pours impressions; prepares models (indices, saws out, and trims dies); waxes, casts, veneers, and finishes crowns and bridges for conventional fixed prostheses; waxes and casts substructures for ceramic crowns and bridges; prepares metal to receive porcelain; applies and bonds porcelain to metal with porcelain furnace; grinds, polishes, and finishes fixed prostheses.

Recommendation
In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 5 semester hours in beginning crown and bridge (conventional) and 5 in advanced crown and bridge (ceramics) (3/76). NOTE: See the recommendation for 42D10 (Dental Removable Prosthetic Specialist) in exhibit MOS–42D–001.

MOS–43E–001

PARACHUTE RIGGER

42E20
43E40
43E50

Exhibit Dates: 10/73–2/77.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description
Summary: Is a qualified parachutist; packs

personnel parachutes and aircraft cargo; fabricates, assembles, repairs, and rigs airdrop equipment. *Skill Level 20:* Packs and tests personnel parachutes; fabricates, rigs, and assembles airdrop equipment; loads, positions, and secures cargo for airdrop. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises and instructs parachute riggers; inspects the work of parachute riggers. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager assisting with planning, coordinating, and supervising all parachute and airdrop activities; normally supervises more than 36 persons.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 5 semester hours in parachute inspection and rigging and 5 in airfreight (on-board) management. In the upper-division baccalaureate category, 3 semester hours in technical electives (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in parachute inspection and rigging, 6 in airfreight (on-board) management, and 3 in personnel management, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in technical electives (2/75).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in parachute inspection and rigging, 6 in airfreight (on-board) management, and 6 in personnel management, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in technical electives and 3 in personnel management (2/75).

MOS–43E–002

PARACHUTE RIGGER

43E10
43E20
43E30
43E40
43E50

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–43J–001

TEXTILE REPAIRMAN

43J10
43J20
43J40

Exhibit Dates: 10/74–2/76. (Effective 3/76, MOS 43J was discontinued and its functions were incorporated into MOS 43M, Fabric Repairman.)

Career Management Field: 57 (Field Services), *subfield* 573 (Textile Renovation).

Description

Summary: Repairs or supervises the repair and alteration of clothing and other textile items. *Skill Level 10:* Assists in repair and alteration of textile items and clothing; operates electric and pedal-driven sewing, stitching, and patching equipment; performs minor repairs and some preventive maintenance on textile repair equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; fabricates and repairs textile items; sizes, fits, and sews worn or damaged clothing; maintains and operates mobile textile repair facilities. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises textile repair personnel; performs complex mending, alteration, and renovation of clothing and textile items; demonstrates and instructs in machine sewing operations; demonstrates the operation of mobile units and other field operations; supervises the maintenance of textile repair equipment and related activities in mobile and fixed shop operations; assigns personnel to work positions; inspects completed work for accuracy; estimates supply requirements.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in power sewing machine operation and 4 for field experience in sewing operations (11/75).

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in power sewing machine operation and 6 for field experience in sewing operations (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in power sewing machine operation and 8 for field experience in sewing and tailoring operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in sewing and tailoring operations, 3 in introduction to management, 2 in personnel management, 2 in records administration, and 1 in first aid, for a total of 14 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in introduction to management (11/75).

MOS–43K–001

CANVAS REPAIRMAN

43K10
43K20
43K40

Exhibit Dates: 10/74–2/76. (Effective 3/76, MOS 43J was discontinued and its functions were incorporated into MOS 43M, Fabric Repairman.)

Career Management Field: 57 (Field Services), subfield 573 (Textile Renovation).

Description

Summary: Repairs or supervises the repair of canvas and webbed items and related equipment. *Skill Level 10:* Assists in the repair of canvas equipment and canvas and webbed items; operates electric and pedal-driven equipment for repair of canvas covers, tarpaulins, and other canvas and webbed items; performs minor repairs and preventive maintenance on canvas repair equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; fabricates and repairs canvas and webbed items; inspects repairable canvas equipment and webbed items for damage tests tensile strength of canvas and repairs with approved test equipment; adjusts and performs preventive maintenance on canvas and webbed item repair equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the repair of canvas repair equipment; directs personnel in setting up canvas repair equipment for repair and salvage operations; inspects repaired canvas and webbed items; directs the salvage of canvas and canvas equipment; instructs personnel in repair and salvage techniques; assigns personnel to work positions.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in power sewing machine operation and 4 for field experience in sewing operations (11/75).

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in power sewing machine operation and 6 for field experience in sewing operations (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in power sewing machine operation and 8 for field experience in sewing operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in sewing and tailoring operations, 3 in introduction to management, 2 in personnel management, 2 in records administration, and 1 in first aid, for a total of 14 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management (11/75).

MOS–43M–001

FABRIC AND LEATHER REPAIR FOREMAN

43M40

Exhibit Dates: 10/73–2/76.

Career Management Field: 57 (Field Services), *subfield* 573 (Textile Renovation).

Description

Serves as fabric and leather foreman; able to perform the duties required for 43J40 (Textile Repairman) or 43K40 (Canvas Repairman); supervises personnel involved in the classification, hand and machine repair and alteration, and fabrication of textile, canvas, clothing, webbed, and leather items; instructs subordinates in repair and salvage procedures and techniques; schedules maintenance of fabric and leather equipment; supervises movement and placement of mobile repair facilities and other field operations; schedules and expedites work schedules of personnel.

Recommendation

In the vocational certificate category, 5 semester hours in power sewing machine operation and 8 for field experience in sewing and tailoring operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in sewing and tailoring operations, 3 in introductory organization management, 2 in personnel management, 2 in records administration, and 1 in first aid, for a total of 14 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to managment and administration and 3 for field experience in management (11/75).

MOS–43M–002

FABRIC REPAIRMAN

43M10
43M20
43M40

Exhibit Dates: 3/76–2/77.

Career Management Field: 57 (Field Services), *subfield* 573 (Textile Renovation).

Description

Summary: Repairs or supervises the repair of textile, canvas, or webbed equipment and clothing. *Skill Level 10:* Assists in the repair and alteration of textile items and clothing, canvas equipment, and canvas and webbed items; operates electric and pedal-driven sewing, stitching, and patching equipment; performs minor repairs and some preventive maintenance on canvas repair and textile equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; fabricates and repairs textile, canvas, and webbed items and clothing; inspects repairable canvas equipment and webbed items for damage; sizes, fits, and sews worn or damaged clothing; adjusts sewing machines and replaces minor parts; lubricates equipment and performs preventive maintenance before, during, and after operation. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises and instructs in the repair, alteration, and salvage of textile, canvas, and webbed items and clothing; assigns duties and schedules work; inspects completed work for accuracy

and quality control; inspects irreparable items to assure that all salvageable parts have been removed; estimates supply requirements; coordinates fabric repair activities and preventive maintenance in mobile and fixed shop conditions; submits progress reports; supervises 15 to 30 fabric repairmen.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in power sewing machine operations and 4 for field experience in sewing operations (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in power sewing machine operations and 6 for field experience in sewing operations (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in power sewing machine operation and 8 for field experience in sewing and tailoring operations. In the lower-division baccalaureate/associate degree category 6 semester hours in sewing and tailoring operations, 3 in human relations, 3 in introductory organization management, 2 in personnel management, 2 in records administration, and 1 in first aid, for a total of 17 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and administration and 3 for field experience in management (5/76).

MOS–43M–003

FABRIC REPAIR SPECIALIST

43M10
43M20
43M30
43M40

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–44B–001

METAL BODY REPAIRMAN

44B20
44B40

Exhibit Dates: 10/73–8/75.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 632 (Metalworking).

Description

Summary: Repairs and straightens metal body panels, fenders, and sheet metal parts; repairs radiators and fuel tanks, and modifies related parts and components. *Skill Level 20:* Determines nature and extent of damage and the repairs required; uses hand tools, power tools, and hydraulic jacks; cuts, welds, brazes, and solders body components; disassembles, repairs, reassembles, and installs fuel tanks, radiators, and similar items; prepares surfaces for painting by sanding, masking, and cleaning; selects, matches, and applies paint to surfaces. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the repair, repainting, and installation of metal body components, radiators, and fuel tanks; determines tools, equipment, and work requirements to repair extensive body damages; performs the more difficult tasks such as forming and forging; assigns work and projects to subordinate personnel and inspects their work; conducts on-the-job training.

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in basic auto body repair. In the lower-division baccalaureate/associate degree category, 9 semester hours in basic auto body repair and, 3 in basic gas welding, and additional credit on the basis of institutional evaluation, for a minimum total of 12 semester hours. In an auto body repairman apprentice training program, 1,000 clock hours of experience and 144 contact hours of related instruction (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in basic auto body repair, 3 in basic gas welding, 3 in shop practices and procedures, and 9 in body refinishing, for a total of 24 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in basic auto body repair, 9 in body refinishing, 3 in basic gas welding and, 3 in personnel supervision, and additional credit on the basis of institutional evaluation, for a minimum total of 24 semester hours. In an auto body repairman apprentice training program, 4,000 clock hours of experience and 288 contact hours of related instruction (2/75).

MOS–44B–002

METAL WORKER

44B10
44B20
44B30
44B40

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 632 (Metalworking).

Description

Summary: Welds metal articles and parts; repairs, repaints, and installs metal body components, radiators, and fuel tanks, and modifies other related items; supervises machine shop activities. *Skill Level 10:* Welds ferrous and nonferrous metals using oxyacetylene or arc welding equipment; determines nature and extent of damage, repairs required, and the welding methods to be employed by examining shape of parts, type of metal, and thickness of section to be welded; selects appropriate welding rod and flux to produce secure bond; makes butt, corner, edge, lap, tee, tack, and slot welds from flat, vertical, and overhead welding positions; makes body and fender repairs; prepares surfaces for painting by filling, sanding, masking, and cleaning; selects, matches, and mixes paints and applies to surfaces by brushing or spraying; repairs radiators, fuel tanks, and similar items by straightening, soldering, patching, tube rodding and splicing, plugging core sections, replacing cores, and pressure testing of leaks; uses hand tools, measuring devices, metal shears, drills, metal saws, dolly blocks, bending irons, mallets, sanders, and hydraulic jacks. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; demonstrates and performs more difficult phases of working metals by cutting, forming, welding, forging, and brazing; fabricates complex parts. *Skill Level 30:* Able to perform the duties required for Skill Level 20; inspects incoming work and determines nature and extent of damage to metal parts and subassemblies; schedules, assigns, and coordinates work according to availability and capability of personnel and equipment; instructs subordinate supervisors in applications of maintenance policies, procedures, and work performance; supervises on-the-job training programs; supervises preparation of shop records and reports and the receipt, maintenance, and issue of shop tools, equipment, and parts. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs as metalworking foreman, machine shop foreman, or toolmaker foreman. NOTE: May have progressed to 44B40 from 44B30 or 44E30 (Machinist).

Recommendation, Skill Level 10

In the vocational certificate category, 9 semester hours in basic auto body repair and 3 in basic gas welding. In the lower-division baccalaureate/associate degree category, 9 semester hours in basic auto body repair and 3 in basic gas welding, and additional credit on the basis of institutional evaluation, for a minimum total of 12 semester hours. In an auto body repairman, painter, or radiator repairman apprentice training program, 1,000 clock hours of experience and 220 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 10. In an auto body repairman, painter, or radiator repairman apprentice training program, 2,000 clock hours of experience and 250 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in basic auto body repair, 9 in auto body refinishing, and 3 in basic welding, for a minimum total of 21 semester hours; *if the duty assignment was welder foreman or metal worker foreman,* 3 additional semester hours in personnel supervision, for a total of 24 semester hours. In an auto body repairman, painter, or radiator repairman apprentice training program, 3,000 clock hours of experience and 275 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management. In an auto body repairman, painter, or radiator repairman apprentice training program, 4,000 clock hours of experience and 300 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS–44C–001

WELDER

44C20
44C40

Exhibit Dates: 10/73–8/75. (Effective 9/75, MOS 44C was discontinued and its functions were incorporated into MOS 44B Metal Worker.)

Career Management Field: 63 (Mechanical Maintenance), *subfield* 632 (Metalworking).

Description

Summary: Welds ferrous and nonferrous metals in vertical, flat, and overhead positions, using gas, including inert gas, and electric arc equipment; welds butt, corner, edge, lap, tee, tack, and slot joints; brazes and burns metals; uses hand tools, measuring devices, and power equipment such as shears, drills, and metal saws; fabricates complex parts; identifies metals; determines welding method to be used. *Skill Level 20:* Selects proper rod and flux; prepares metal and fastens it securely to prevent warpage and distortion; works from blueprints and sketches. *Skill Level 40:* Able to perform the duties required for Skill Level 20, supervises welding operations; demonstrates and performs smithing operations; inspects welds for warpage, distortion, cracks, and hardness; lays out complex projects and assigns jobs to subordinate personnel; plans and conducts on-the-job training.

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in welding (general). In the lower-division baccalaureate/associate degree category, a minimum of 9 semester hours in welding

(general) and additional credit on the basis of institutional evaluation. In a welder (general) apprentice training program, a minimum of 1,000 clock hours of experience and 144 contact hours of related instruction, and additional clock hours of experience on the basis of a performance examination (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in welding (general). In the lower-division baccalaureate/associate degree category, 15 semester hours in welding (general) and additional credit on the basis of institutional evaluation. In a welder (general) apprentice training program, 6,000 clock hours of experience and 432 contact hours of related instruction; journeyman status achieved through employer or trade association evaluation (2/75).

MOS–44E–001

MACHINIST

44E20
44E30
44E40

Exhibit Dates: 10/73–8/75.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 632 (Metalworking).

Description

Summary: Fabricates, repairs, and modifies metallic and nonmetallic parts, using all types of machine tools such as engine lathes, milling machines, boring machines, and grinders; machines pieces according to specifications, tooling instructions, and standard charts, applying knowledge of machine methods; reads blueprints and job orders for product specifications. *Skill Level 20:* Lays out and sets up work; establishes and marks necessary reference points, centerlines, and machining guidelines; computes and sets up proper machine speeds to attain correct cutting speeds, setups, and depth of cut and feed; clamps or fastens work in holding devices or to machines; selects, grinds, and affixes cutting tools; performs toolbit grinding and setting; adjusts and controls machines; checks dimensions of finished work, using measuring devices such as squares, rules, scales, calipers, micrometers, and thread gauges; employs shop mathematics, charts, and tables; interprets simple drawings and sketches. *Skill Level 30:* Able to perform the duties required for Skill Level 20; designs, fabricates, modifies and repairs jigs, fixtures, dies, and special tools; sets and adjusts tools; applies heat-treating procedures, including annealing, normalizing, hardening, case hardening, and tempering; works within close precision tolerances of .001 inch; uses standard and nonstandard practices in accomplishing unusual machining jobs; inspects completed work and tests parts to determine proper performance. *Skill Level 40:* Able to perform the duties required for Skill Level 30; is a fully qualified machinist; sets up and operates machine tools; fits and assembles parts to make or repair mechanisms, tools, or machines; applies knowledge of mechanics, shop mathematics, metal properties, and layout procedures; reads sketches, blueprints, and descriptions of parts; supervises machine operations and determines work request validity; assigns work in accordance with priority of jobs, availability of equipment, and abilities of machinists; inspects equipment and machines to determine condition and supervises adjustments and repairs; enforces safety regulations.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, a minimum of 9 semester hours in a machinist program, and additional credit on the basis of institutional evaluation. In a machinist apprentice training program, a minimum of 1,000 clock hours of experience and 144 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (2/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, a minimum of 15 semester hours in a machinist program, and additional credit on the basis of institutional evaluation. In a machinist apprentice training program, 6,000 clock hours of experience and 432 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, a minimum of 15 semester hours in a machinist program, and additional credit on the basis of institutional evaluation. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as a machinist or a machinist setup operator (2/75).

MOS–44E–002

MACHINIST

44E10
44E20
44E30

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 632 (Metalworking).

Description

Summary: Supervises or performs the fabrication, repair, and modification of metallic and nonmetallic parts. *Skill Level 10:* Fabricates, repairs, and modifies metallic and nonmetallic parts to blueprint specifications utilizing such machines as engine lathes, grinders, milling machines, vertical bandsaws, and drill presses and their associated attachments, accessories, and tools; interprets job orders, blueprints, and specifications; lays out and sets up work; establishes and marks necessary reference points, centerlines, and machining guidelines; computes and sets up proper machine speeds to attain correct cutting speeds, setups, and depth of cut and feed; clamps or fastens work in holding devices or to machines; selects, grinds, and affixes cutting tools; performs toolbit grinding and setting; adjusts and controls machines; checks dimensions of finished work, using measuring devices such as squares, rules, scales, calipers, micrometers, and thread gauges; employs shop mathematics, charts, and tables; interprets blueprints and sketches. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs as a machinist and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; designs, fabricates, modifies, and repairs jigs, fixtures, dies, and special tools to facilitate metal working operations; performs as machine shop or toolmaker foreman; determines nature and extent of work to be performed and method of its accomplishment; employs standard practices of machining, such as toolbit angles, proper cutting speeds for various materials, and methods of setting and adjusting tools to suit materials; applies heat-treating procedures, including annealing, normalizing, hardening, case hardening, and tempering; grinds and sharpens tools such as drills, toolbits, and reamers; works to dimensions as precise as tolerances of .001 inch; uses technical instructions in accomplishing unusual machining jobs involving standard and nonstandard practices; converts specifications and instructions to machining operations; inspects completed work and tests parts; requisitions sufficient supplies of expendable tools and materials.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, a minimum of 9 semester hours in a machinist program, and additional credit on the basis of institutional evaluation. In a machinist apprentice training program, a minimum of 1,000 clock hours of experience and 144 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, a minimum of 15 semester hours in a machinist program, and additional credit on the basis of institutional evaluation. In a machinist apprentice training program, a minimum of 4,000 clock hours of experience and 288 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, a minimum of 15 semester hours in a machinist or machinist setup operator program, and additional credit on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, a minimum of 15 semester hours in a machinist or machinist setup operator program, and additional credit on the basis of institutional evaluation; *if the duty assignment was either machine shop foreman or machine operator foreman,* 3 additional semester hours for field experience in management, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management *only if the duty assignment was either machine shop foreman or machine operator foreman.* In a machinist apprentice training program, a minimum of 6,000 clock hours of experience and 432 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS–45B–001

SMALL ARMS REPAIRMAN

45B10
45B20
45B30

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 634 (Armament Maintenance).

Description

Summary: Supervises or performs repair and limited overhaul of small arms and other infantry weapons. *Skill Level 10:* Cleans components of dirt, rust, and corrosion; lubricates moving parts; disassembles weapons and determines condition of components; measures degree of wear with precision measuring instruments; repairs and refinishes weapons by honing, grinding, sandblasting, degreasing, and soldering; reassembles weapons, makes adjustments, checks dimensions and tolerances, and tests weapons' mechanisms; tests fire weapons; uses common and specialized mechanics tools. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises inspection, repair, and technical service assistance teams; maintains records; evaluates the condition of small arms and determines the maintenance or repairs required; conducts on-the-job training.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in use and care of hand and power tools, 2 in use and care of precision testing equipment, and additional

credit in a mechanical repairman program on the basis of institutional evaluation. In a maintenance mechanic or repairman (gun repairman) apprentice training program, 500 clock hours of experience and 70 contact hours of related instruction (12/75).

Recommendation, Skill Level 20

In the vocational certificate category and in the lower-division baccalaureate/associate degree category, same as that for Skill Level 10. In a maintenance mechanic or repairman (gun repairman) apprentice training program, 1,000 clock hours of experience and 70 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in use and care of hand and power tools, 2 in use and care of precision testing equipment, 2 in personnel supervision, and 1 in records administration, for a minimum total of 7 semester hours, and additional credit on the basis of institutional evaluation. In a maintenance mechanic or repairman (gun repairman) apprentice training program, 1,200 clock hours of experience and 70 contact hours of related instruction, and additional clock hours of experience on the basis of institutional evaluation (12/75).

MOS–45J–001

AIRCRAFT ARMAMENT REPAIRMEN

45J20

45J40

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 45J was discontinued and its functions were incorporated into MOS 68J, Helicopter Missile Systems Repairer, and MOS 68K, Aircraft Components Repair Supervisor).

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Components Repair).

Description

Summary: Supervises or performs maintenance on components and weapons of aircraft armament subsystems. *Skill Level 20:* Performs maintenance on mechanical, electrical, and hydraulic components, and on weapons of aircraft armament subsystems; inspects or performs final checkout of subsystems. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises 5 or more persons performing aircraft armament maintenance activities.

Recommendation, Skill Level 20

No recommendation because the skills, competencies, and knowledge are uniquely military in nature. (11/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 2 semester hours in personnel supervision (11/75).

MOS–45K–001

TANK TURRET REPAIRMAN

45K20

45K40

Exhibit Dates: 10/73–8/75.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 636 (Armament Maintenance).

Description

Summary: Performs maintenance on turret mechanisms and weapons of tanks, cupolas, and similar equipment; diagnoses malfunctions; repairs turrets, cupolas, weapons; tests turret systems. *Skill Level 20:* Determines the nature and causes of malfunctions; repairs loading, firing, and recoil mechanisms; repairs turret-cupola hydraulic systems and wiring systems; analyzes and tests continuity of circuits; uses power tools and hand tools; keeps maintenance records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; determines maintenance required; supervises maintenance; establishes work schedules and priorities; conducts on-the-job training; supervises a minimum of five persons. NOTE: May have progressed to 45K40 from 45K20, 45N20 (Tank Turret Mechanic), 45P20 (Sheridan Turret Mechanic), or 45R20 (Missile Tank Turret Mechanic).

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in the selection, care, and use of hand and power tools, 1 in hydraulics, and 1 in electrical wiring systems, for a total of 3 semester hours. In the lower-division baccalaureate/associate degree category, credit on the basis of institutional evaluation and/or performance examination. In a truck mechanic apprentice training program, advanced standing on the basis of employer or trade association performance examination in the areas of basic hand and power tools, electrical systems, and hydraulics (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 1 semester hour in the selection, care, and use of hand and power tools, 1 in hydraulics, and 1 in electrical wiring systems, for a total of 3 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and training and additional credit on the basis of institutional evaluation. In a truck mechanic apprentice training program, advanced standing on the basis of employer or trade association performance examination in the areas of basic hand and power tools, electrical systems, and hydraulics (2/75).

MOS–45K–002

TANK TURRET REPAIRMAN

45K10

45K20

45K30

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 634 (Armament Maintenance).

Description

Summary: Performs maintenance on turret mechanisms and weapons of tanks, cupolas, and similar equipment; diagnoses malfunctions; repairs turrets, cupolas, weapons; tests turret systems. *Skill Level 10:* Determines the nature and causes of malfunctions; repairs loading, firing, and recoil mechanisms; repairs turret-cupola hydraulic systems and wiring systems; analyzes and tests continuity of circuits; rewires circuits; tests and adjusts equipment in accordance with prescribed limits and tolerances; uses power, hand, and special tools and precision instruments; keeps maintenance records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance and conducts some on-the-job training for Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; determines the category of maintenance required; establishes on-the-job training programs, workload schedules, and priorities; inspects equipment and prepares inspection reports; supervises a minimum of 9 persons. NOTE: May have progressed to 45K30 from 45K20, 45N20 (Tank Turret Mechanic), 45P20 (Sheridan Turret Mechanic), or 45R20 (Missile Tank Turret Mechanic).

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in the selection, care, and use of hand and power tools, 1 in hydraulics, and 1 in electrical wiring systems, for a total of 3 semester hours. In the lower-division baccalaureate/associate degree category, credit on the basis of institutional evaluation and/or performance examination. In a truck mechanic apprentice training program, advanced standing on the basis of employer or trade association performance examination in the areas of basic hand and power tools, electrical systems, and hydraulics (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in the selection, use, and care of hand and power tools, 2 in hydraulics, and 2 in electrical wiring systems, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and additional credit in hydraulics and electrical wiring systems on the basis of institutional evaluation. In a truck mechanic apprentice training program, advanced standing on the basis of employer or trade association performance examination in the areas of basic hand and power tools, electrical systems, and hydraulics (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in the selection, use, and care of hand and power tools, 2 in hydraulics, and 2 in electrical wiring systems, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 for field experience in management, and additional credit in hydraulics and electrical wiring systems on the basis of institutional evaluation, for a minimum total of 6 semester hours. In a truck mechanic apprentice training program, advanced standing on the basis of employer or trade association performance examination in the areas of basic hand and power tools, electrical systems, and hydraulics (12/75).

MOS–45L–001

ARTILLERY REPAIRMAN

45L10

45L20

45L30

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 634 (Armament Maintenance).

Description

Summary: Performs maintenance on artillery turrets, artillery weapons, and similar equipment. *Skill Level 10:* Performs maintenance on light, medium, and heavy self-propelled artillery and turret mechanisms, towed artillery, air defense artillery, and similar equipment; lubricates moving parts; uses common and specialized hand tools; measures tolerances with precision instruments and special tools; applies proper rigging procedures for hoisting heavy equipment and material; traces, tests, repairs, or replaces circuits; inspects equipment and prepares inspection reports. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; evaluates the condition of equipment to determine the kind of maintenance required; establishes workload schedules and priorities; conducts on-the-job training; inspects the work of subordinates; prepares records, forms, and reports.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in shop practices and 2 in the care and use of tools and precision equipment, and additional credit in basic electricity on the basis of institutional evaluation. In a millwright apprentice training program, 1,000 clock hours of experience (12/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in shop practices, 2 in the care and use of tools and precision equipment, 2 in personnel supervision, and 1 in records administration, and additional credit in basic electricity on the basis of institutional evaluation, for a minimum total of 14 semester hours. In a millwright apprentice training program, 1,000 clock hours of experience (12/75).

MOS–45M–001

AIRCRAFT ARMAMENT SUBSYSTEM MECHANIC

45M20

45M40

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 45M was discontinued and its functions were incorporated into MOS 68K, Aircraft Components Repair Supervisor, and MOS 68M, Helicopter Weapon Systems Repairer.)

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Components Repair).

Description

Summary: Supervises or performs maintenance on aircraft armament subsystems. *Skill Level 20:* Examines armament systems and fire control equipment for malfunctions or defects; determines maintenance required and writes appropriate repair orders; removes, disassembles, repairs, assembles, installs, tests, and adjusts weapons and components; performs modifications, synchronization, boresighting, and alignment; performs final checkout of complete system; keeps records and assits in stocking replacement items. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises aircraft armament maintenance activities; diagnoses unusual malfunction; establishes maintenance controls and performance standards; conducts on-the-job training.

Recommendation, Skill Level 20

No recommendation because the skills and knowledge are military in nature (2/75).

Recommendation, Skill Level 40

Credit in management and human relations on the basis of institutional evaluation (2/75).

MOS–45N–001

TANK TURRET MECHANIC

45N10

45N20

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 634 (Armament Maintenance).

Description

Summary: Performs maintenance on conventional tank turret/cupola systems. *Skill Level 10:* Inspects, tests, troubleshoots, repairs, and adjusts electrical, hydraulic, fire control, mechanical, and firing systems; replaces components; cleans and lubricates turret/cupola systems; uses schematic diagrams; uses repair parts publications and orders parts. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel.

Recommendation, Skill Level 10

In the vocational certificate or in the lower-division baccalaureate/associate degree category, 6 semester hours in hydraulics and 4 in basic electricity, and additional credit in hydraulics, electricity, and mechanics on the basis of institutional evaluation. In an industrial truck mechanic apprentice training program, 1,000 clock hours of experience and 144 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 20

The recommendation for educational credit is the same as that for Skill Level 10. In an industrial truck mechanic apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS–45P–001

SHERIDAN TURRET MECHANIC

45P10

45P20

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 634 (Armament Maintenance).

Description

Summary: Performs maintenance on Sheridan tank turret and related equipment. *Skill Level 10:* Inspects, tests, troubleshoots, repairs, and adjusts electrical traversing and elevation system, firing systems, gun launcher system, fire control system, cupola systems, and turret mounted weapons; cleans and lubricates systems; replaces components; uses technical and repair parts publications and electrical diagrams; modifies systems; keeps maintenance records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in basic electricity, and additional credit in basic electricity and mechanics on the basis of institutional evaluation. In an industrial truck mechanic apprentice training program, 1,000 clock hours of job experience (electrical) and 144 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 20

The recommendation for educational credit is the same as that for Skill Level 10. In an industrial truck mechanic apprentice training program, 2,000 clock hours of experience (electrical) and 144 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS–45R–001

MISSILE TANK TURRET MECHANIC

45R10

45R20

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 634 (Armament Maintenance).

Description

Summary: Performs maintenance on missile tank turret system and related equipment. *Skill Level 10:* Performs as missile tank turret mechanic; inspects and tests stabilization system, electro-hydraulic elevation and transverse system, recoil system, fire control systems, firing systems, gun launcher system, cupola systems, test equipment, and turret mounted weapons; troubleshoots turret cupola systems with fire control, stabilization, simulator sensor, electrical and air flow filter turret test equipment; troubleshoots, adjusts, removes, and replaces prescribed components of turret systems; cleans and lubricates systems; interprets technical publications; keeps maintenance forms and records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in hydraulics, 4 in basic electricity, and 2 in use and care of testing equipment, and additional credit in hydraulics, basic electricity, and mechanics on the basis of institutional evaluation, for a minimum total of 12 semester hours. In an industrial truck mechanic apprentice training program, 1,000 clock hours of experience and 144 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 20

The recommendation for educational credit is the same as that for Skill Level 10. In an industrial truck mechanic apprentice training program, 2,000 clock hours of experience and 144 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS–45Z–001

ARMAMENT MAINTENANCE FOREMAN

45Z40

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 634 (Armament Maintenance).

Description

Supervises, schedules, and assigns work to repair crews engaged in maintenance of all armament materiel; estimates time required to perform specific jobs; procures parts, supplies, and materiel; determines the method of repair or fabrication; applies information contained in technical publications; conducts on-the-job training; applies test and inspection procedures. NOTE: May have progressed to MOS 45Z40 from 45B30 (Small Arms Repairman), 45K30 (Tank Turret Repairman), or 45L30 (Artillery Repairman).

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and additional credit on the basis of institutional evaluation. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 6 for field experience in management (12/75).

MOS–46D–001

IMPROVED HAWK MECHANICAL SYSTEMS REPAIRMAN

46D20

46D40

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 46D was discontinued and its functions were incorporated into MOS 24L, Improved Hawk Launcher and Mechanical Systems Repairman).

Career Management Field: 23 (Air Defense Missile Maintenance), *subfield* 236 (Improved Hawk Missile System Repair).

Description

Summary: Supervises or performs maintenance on the electrical, hydraulic, hydropneumatic, mechanical, and electro-mechanical portions of the Improved Hawk System. *Skill Level 20:* Inspects, tests, and adjusts components to specific tolerances and determines shortcomings and deficiencies with common and system special-design test equipment; performs load-testing, maintenance calibration, and repair of job-related tools and equipment; installs equip-

ment modifications. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes workloads and repair priorities; implements quality control measures; supervises inspection and maintenance teams; organizes and conducts on-the-job training; demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in basic electricity, 3 in mechanics, 3 in hydraulics, 1 in shop practices, 3 in technical mathematics, and additional credit in electronics, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulics, 3 in mechanics, 3 in technical mathematics, and additional credit in electronics, electricity, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 9 semester hours (2/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in hydraulics, 3 in mechanics, 3 in technical mathematics, 3 in personnel supervision, 3 in human relations, 3 for field experience in management, and additional credit in electronics, electricity, mechanics, and hydraulics on the basis of institutional evaluation, for a minimum total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (2/76).

MOS–46L–001

SERGEANT ELECTRICAL-MECHANICAL REPAIRMAN

46L20

46L40

Exhibit Dates: 10/74–8/77. (Effective 9/77, MOS 46L was discontinued).

Career Management Field: 21 (Ballistic Missile Repair), *subfield* 212 (Sergeant Missile Repair).

Description

Summary: Supervises or performs maintenance on the electrical, mechanical, and hydraulic portions of the Sergeant missile system. *Skill Level 20:* Inspects, tests, aligns, and repairs electrical and mechanical portions of the missile rocket motor, control, fins, and drag brakes; performs maintenance of the azimuth orientation system, less theodolite; inspects, tests, and adjusts items to specific tolerances and determines shortcomings and deficiencies in electrical, mechanical, and hydraulic assemblies with common and system special-design test equipment; removes malfunctioning assemblies; performs calibration and repairs on tools and equipment; provides technical assistance to support units. *Skill Level 40:* Able to perform the duties required for Skill Level 20; establishes workloads and repair priorities; recommends procedures for receipt, storage, inspection, testing, and repair of items; supervises inspection and maintenance teams; organizes and conducts on-the-job training programs; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in hydraulic laboratory, 2 in basic electricity laboratory, and 2 in systems maintenance, for a total of 6 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in hydraulic laboratory, 2 in basic electricity laboratory, and 2 in systems maintenance, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 for field experience in management (6/76).

MOS–46N–001

PERSHING ELECTRICAL-MECHANICAL REPAIRMAN

46N20

46N40

Exhibit Dates: 10/73–8/77.

Career Management Field: 21 (Ballistic Missile Repair), *subfield* 211 (Pershing Missile Repair).

Description

Summary: Supervises or performs routine maintenance on the electrical, mechanical, and hydraulic portions of the Pershing missile system. *Skill Level 20:* Inspects, tests, and adjusts components to specific tolerances; determines shortcomings and deficiencies in electrical, mechanical, electromechanical, hydraulic, pneumatic, and hydropneumatic assemblies, subassemblies, and circuits, using special-design test equipment; repairs or removes, replaces, and determines the serviceability of defective components and parts; performs quality control measures; performs checkouts and inspections of equipment; prepares maintenance and supply forms. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor of 5–15 persons; establishes workloads and repair priorities; implements quality control measures; conducts on-the-job training; determines faulty work practices and demonstrates proper maintenance and troubleshooting techniques; establishes and keeps maintenance records.

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in mechanical maintenance. Fully qualified to enter an apprentice training program (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, 1 semester hour in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations and 3 for field experience in management. Fully qualified to enter an apprentice training program (3/76).

MOS–46N–002

PERSHING ELECTRICAL-MECHANICAL REPAIRER

46N10

46N20

46N30

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–51A–001

CONSTRUCTION AND UTILITIES WORKER

51A10

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Assists in the performance of various construction and utilities maintenance duties; may have experience in one or more of the following areas: painting, material handling, carpentry, masonry, electricity, sheet metal working, heating and ventilating equipment, refrigeration and air conditioning equipment, water supply, and sewage disposal.

Recommendation

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (12/75).

MOS–51B–001

CARPENTER

51B20

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Fabricates, erects, and maintains wooden articles and structures; examines blueprints, sketches, and drawings; orders materials and tools; performs preventive maintenance on tools and equipment; coordinates carpentry work with journeymen in other fields; assesses damaged articles and structures and determines how to repair them; inspects finished work; explains and demonstrates methods and procedures for construction helpers. NOTE: May have progressed to 51B20 from 51A10 (Construction and Utilities Worker.)

Recommendation

In the vocational certificate category, 20 semester hours in carpentry (2/75).

MOS–51C–001

STRUCTURES SPECIALIST

51C20

51C30

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Summary: Lifts and moves heavy objects, services cargo handling gear, and positions and joins heavy beams, fabricated pieces or trusses, and other structural assemblies. *Skill Level 20:* Serves as a rigger, using various rigging tools and assemblies and a wide combination of rope, wire rope, knots, and handling gear, including block and tackle; makes rough construction drawings. NOTE: May have progressed to 51C20 from 51A10 (Construction and Utilities Worker). *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as a structures specialist; reads construction blueprints and other building plans; joins members by using bolts and rivets or by arc welding; uses oxyacetylene torch; performs preventive maintenance on tools and equipment.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in blueprint reading, 2 in use and care of tools, and 2 in rigging, for a total of 6 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 2 semester hours in blueprint reading, 2 in use and care of tools, 2 in rigging, 2 in welding, 2 in carpentry, and 1 in construction drafting, for a total of 11 semester hours (6/76).

MOS–51D–001

MASON

51D10

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Serves as a mason; reads blueprints in order to determine materials required and procedures

to be followed; utilizes various tools; prepares proper cement and mortar mix as required and specified; lays blocks and bricks in the construction of foundations and walls; constructs forms and places concrete. NOTE: May have progressed to 51D20 from 51A10 (Construction and Utilities Worker).

Recommendation

In the vocational certificate category, 20 semester hours in masonry. In the lower-division baccalaureate/associate degree category, 12 semester hours in masonry and 3 in mathematics (12/75).

MOS–51E–001

CAMOUFLAGE SPECIALIST

51E20
51E40
51E50

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 51E was discontinued and its functions were incorporated into MOS 12B, Combat Engineer, and MOS 12Z, Combat Engineering Senior Sergeant.)

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Summary: Constructs, selects, erects, and places decoys, nets, screens, drapes, and other camouflage devices. *Skill Level 20:* Fabricates camouflage materials and decoys; erects such items by rigging and supports; rigs and hoists them into position using anchors and shears of self design and construction, blocks and tackle, highline, and tramway; builds and erects scaffolds; paints, selects and applies garnishing materials with adhesives, and alters surface textures. NOTE: May have progressed to 51E20 from 51A10 (Construction and Utilities Worker). *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises Skill Level 20 personnel; designs and sketches items to be fabricated; requisitions materials and equipment. *Skill Level 50:* Able to perform the duties required for Skill Level 40; interprets and supervises the execution of policy and operation procedures; assists in planning, coordinating, and supervising all company support activities; advises superiors on personnel matters.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in rigging and rough structure fabrication in a millwright or similar curriculum or 2 semester hours in concrete form construction in a carpentry curriculum. In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, 3 semester hours in stage set construction in a drama or broadcasting curriculum (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, 3 semester hours in stage set construction in a drama or broadcasting curriculum and 2 in introduction to management (12/75).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, 3 semester hours in stage set construction in a drama or broadcasting curriculum 3 in introduction to management, and 3 for field experience in management, for a total of 9 semester hours (12/75).

MOS–51F–001

PIPELINE SPECIALIST

51F20
51F40
51F50

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Summary: Constructs and installs pipelines, pumping stations, and fuel storage facilities. *Skill Level 20:* Clears and prepares right-of-way access and terminal sites; assists in the construction of necessary bridges, ditches, and pipeline cradles; assists in assembling pipelines and installs pumping stations; operates pumps, combats petroleum fires, and exercises safety precautions; uses common and specialized tools. NOTE: May have progressed to 51F20 from 51A10 (Construction and Utilities Worker.) *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor of 15–25 persons; assists in planning pipeline systems; selects pumping station sites and supervises construction and equipment installation; reads blueprints, topographical maps, profile maps, and performance flow charts; supervises work crews and coordinates activities with surveying personnel; inspects completed projects; assists in the demolition of pipeline facilities; conducts on-the-job training; demonstrates and explains pipeline installation and operation; prepares reports pertaining to operations, training, and intelligence. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager, serving as a first sergeant of a company of up to 120 persons; plans, coordinates, and supervises all company activities; advises company commander on all enlisted personnel matters and is responsible for all enlisted personnel actions; conducts meetings with subordinate supervisors; directs company administration; initiates corrective actions when necessary; directs training; may also serve as chief instructor in a formal training facility.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in heavy equipment operation, 1 in use and care of tools, 1 in pump maintenance, 1 in fire safety, and 1 in first aid, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in heavy equipment operation, 2 in construction methods, 1 in fire safety, and 1 in first aid, for a total of 6 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in heavy equipment operation, 2 in blueprint and map reading, 1 in use and care of tools, 1 in pump maintenance, 1 in fire safety, and 1 in first aid, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in construction management, 3 in personnel supervision, 3 in human relations, 2 in principles of fluid hydraulics, 2 in blueprint and map reading, 2 in heavy equipment operation, 2 in construction methods, 1 in fire safety, and 1 in first aid, for a total of 19 semester hours (6/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 for field experience in management, 3 in personnel management, and 3 in construction management for a minimum total of 12 semester hours; and, *if the duty assignment was chief instructor at a formal training facility*, 3 additional semester hours for an internship in education, for a total of 15 semester hours (6/76).

MOS–51G–001

SOILS ANALYST

51G20

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Surveys, samples, tests, analyzes, evaluates, and classifies soil and aggregates; studies soils with respect to origin, distribution, and composition; performs physical testing and experimental work in field and laboratory to determine engineering characteristics of soils and construction materials such as concrete, aggregate, bituminous, and other base materials; classifies soils according to standard engineering classifications; designs pavement mixes and inspects construction; investigates problems of stabilization and drainage of soils used as foundations for roads, dams, buildings, and other structures; advises on soil use in construction.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in soils, aggregates, and mix design, and 5 in soils, bituminous, and concrete laboratory (12/75).

MOS–51H–001

CONSTRUCTION FOREMAN

51H40
51H50

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Summary: Supervises construction and repair of structures and facilities such as barracks, warehouses, sheds, jetties, wharves, fixed bridges, and storage tanks. *Skill Level 40:* Estimates runoff for drainage areas, supply needs, and time requirements for construction projects; estimates utilities requirements for various types of structures; computes stresses; employs heavy construction equipment, standard construction techniques, and general engineering principles in projects; reinforces existing structures to correct faulty construction or to increase load capacity; enforces safety regulations; has responsibility for on-site utilization and supervision of personnel. NOTE: May have progressed to 51H40 from 51B20 (Carpenter), 51C30 (Structures Specialist), 51D20 (Mason), 51G20 (Soils Analyst), 51R20 (Electrician), or 81B20 (Construction Draftsman). *Skill Level 50:* Able to perform the duties required for Skill Level 40; plans, coordinates, and supervises activities pertaining to organization, training, and technical operation of a construction company; assists in planning construction procedures, specifications, and work schedules, and in determining materiel needs; schedules use of heavy equipment; conducts on-the-job training by adapting training guides, programs, and tests to fit needs; keeps records of construction projects and training. NOTE: May have progressed to 51H50 from 51H40, 51F40 (Utilities Foreman), 62N50 (Construction Machine Supervisor), 82B40 (Construction Surveyor), or 00B40 (Diver).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 3 in technical writing, 3 in industrial technology, 3 in human relations, and 3 in personnel supervision, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (12/75).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in records

administration, 3 in technical mathematics, 3 in technical writing, 3 in industrial technology, 3 in human relations, and 3 in personnel supervision, for a total of 18 semester hours. In the upper-division baccalaureate category, 9 semester hours in construction management, or 3 semester hours in introduction to management and 6 for field experience in management, for a total of 9 semester hours, and additional credit in management on the basis of institutional evaluation (12/75).

MOS–51J–001

HEATING AND VENTILATING SPECIALIST

51J20
51J30

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 512 (Utilities Engineering).

Description

Summary: Fabricates, assembles, erects, and repairs sheet metal items of tin, copper, terneplate, and metal alloy stock. *Skill Level 20:* Reads blueprints; selects, lays out, cuts, and bends metal stock; bends sheet metal pieces; joins metal sections, utilizing slip joints, rivets, nails, bolts, solder, and weld; uses hand tools and power machines. NOTE: May have progressed to 51J20 from 51A10 (Construction and Utilities Worker). *Skill Level 30:* Able to perform the duties required for Skill Level 20; installs and repairs heating units and nonrefrigerated air conditioning and ventilating units; heating units may be gas, oil, or coal fired, using hot air, steam, or hot water to transfer heat; works with other tradesmen in installing electrical controls, blower units, and air ducts.

Recommendation, Skill Level 20

In the vocational certificate category, 20 semester hours in a sheet metal program. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical math, 2 in blueprint reading, 3 in sheet metal laboratory, and 1 in care and use of hand and power tools, for a total of 9 semester hours (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 20 semester hours in a sheet metal program or 15 semester hours in a heating program. In the lower-division baccalaureate/associate degree category, 3 semester hours in industrial technology, 3 in technical math, 3 in sheet metal laboratory, 2 in blueprint reading, 2 in heating laboratory, and 1 in care and use of hand and power tools, for a minimum total of 14 semester hours, and additional credit in applied science and personnel supervision on the basis of institutional evaluation (12/75).

MOS–51K–001

PLUMBER

51K20

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 512 (Utilities Engineering).

Description

Installs and repairs pipe systems and fixtures for water, gas, steam, petroleum, compressed air, and disposable systems for water and waste; cuts, connects, and seals joints; suspends, lays, or insulates cast iron and steel pipe, copper tubing, fiber, cement, or other pipe, and tests for leaks; determines correct pipe and tubing sizes, fitting requirements, proper venting and slopes for flow or drainage; plans work on the basis of furnished construction drawings, specifications, or sketches, using appropriate reference material to select required tools and materials; inspects, maintains, and repairs plumbing systems, including valves and other mechanisms, ruptured pipes and tubing. NOTE: May have progressed to 51K20 from 51A10 (Construction and Utilities Worker).

Recommendation

In the vocational certificate category, 34 semester hours in a plumbing program. In the lower-division baccalaureate/associate degree category, 24 semester hours in a plumbing program or sanitation technology curriculum (12/75).

MOS–51L–001

HEATING AND COOLING SPECIALIST

51L20

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 512 (Utilities Engineering).

Description

Installs, maintains, regulates, adjusts and repairs conventional refrigeration equipment, general purpose air conditioning units, and multifuel forced air heaters; disassembles major components, removes and replaces faulty individual parts, and reassembles; repairs electric wiring in control circuits and repairs electromechanical controls; prepares and tests brine solutions; performs preventive maintenance on equipment, and organizational maintenance on gasoline engines; utilizes safety procedures applicable to toxic gases, pressurized components, and electricity; instructs other personnel in operation of equipment. NOTE: May have progressed to 51L20 from 51A10 (Construction and Utilities Worker).

Recommendation

In the vocational certificate category, 20 semester hours in heating and air conditioning. In the lower-division baccalaureate/associate degree category, 12 semester hours in heating and air conditioning, and additional credit in physical sciences, general mathematics, and supervision on the basis of institutional evaluation (12/75).

MOS–51M–001

FIREFIGHTER

51M20
51M40

Exhibit Dates: 10/73–Present.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Summary: Serves as chief or member of a firefighting unit. *Skill Level 20:* Operates all types of extinguishers; knows which extinguishers to use for different types of fires; employs demolition methods when necessary; rescues trapped or injured personnel; administers first aid; employs explosion hazard meter as necessary; records firefighting equipment; maintains equipment in operable condition. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises and directs firefighting and rescue units; identifies types of fires; supervises the administration of first aid; supervises maintenance of firefighting and rescue equipment to ensure proper operating condition; inspects for fire regulation violations; recommends and enforces fire prevention regulations; inspects buildings, facilities, and installations that have been damaged by fire to determine the cause of the fire; prepares recurring and special fire reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to fire science and fire prevention and 1 in first aid (2/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 24 semester hours in introduction to fire science and fire prevention, 3 in first aid, 3 in communication skills, and additional credit in fire science and fire prevention on the basis of institutional evaluation, for a minimum total of 30 semester hours (2/75).

MOS–51N–001

WATER SUPPLY SPECIALIST

51N20
51N40
51N50

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General engineering), *subfield* 512 (Utilities Engineering).

Description

Summary: Produces and distributes potable water to supported field units. *Skill Level 20:* Checks sources of water for suitability; tests and analyzes raw water samples for contamination and other characteristics and identifies necessary treatments; sets up and operates mobile or portable water treatment equipment; checks and controls the process of water purification, including sedimentation, coagulation, pH value, turbidity, chlorination, and filtration; prepares standard solutions for water tests; operates pumps, engines, and vehicles; makes appropriate adjustments, replaces defective water-related components and performs preventive maintenance tasks; makes connections for distribution of purified water to users and maintains supply. NOTE: May have progressed to 51N20 from 51A10 (Construction and Utilities Worker). *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises Skill Level 20 personnel; locates suitable water sources and determines potential supply volume; verifies suitability of actions taken by subordinates in testing, analysis, and treatment of water; supervises the installation, operation, and maintenance of equipment for production and distribution of potable water; prescribes standard or special methods as required; instructs and supervises the training of subordinates, evaluates their performance, and employs personnel management techniques. *Skill Level 50:* Able to perform the duties required for Skill Level 40; assists in planning, coordinating, and supervising all company support activities; advises superiors on personnel matters.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in water supply and purification. In the lower-division baccalaureate/associate degree category, 3 semester hours in water supply and pollution control (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in water supply and purification. In the lower-division baccalaureate/associate degree category, 3 semester hours in water supply and pollution control and 2 in introduction to management (12/75).

Recommendation, Skill Level 50

In the vocational certificate category, 3 semester hours in water supply and purification. In the lower-division baccalaureate/associate degree category, 3 semester hours in water supply and pollution control, 3 in introduction to management, and 3 for field experience in management, for a total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (12/75).

MOS–51P–001

UTILITIES FOREMAN

51P40

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 512 (Utilities Engineering).

Description

Plans and supervises the construction, installation, maintenance, and repair of water supply, waste disposal, electrical service, refrigeration, heating, and ventilation systems; estimates material, manpower, and equipment requirements; advises personnel on technical problems encountered; performs or supervises related administrative activities. NOTE: May have detailed knowledge of one or more of the following areas: heating and ventilating, plumbing, heating and cooling, and industrial gas production, through previous MOS experience in the general engineering career management field (51).

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in industrial arts, 3 in technical mathematics, 3 in industrial technology (utilities maintenance), and 3 in personnel supervision, for a total of 15 semester hours. In the upper-division baccalaureate category, 6 semester hours in utilities construction management, or 3 semester hours in introduction to management and 3 for field experience in management (12/75).

MOS–51Q–001

TERRAIN ANALYST

See the exhibit for MOS 81Q.

MOS–51R–001

ELECTRICIAN

51R20
51R30
51R40
51R50

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 512 (Utilities Engineering).

Description

NOTE: The scope of duties performed in this MOS varies considerably throughout the Army; duties performed may include installation, inspection, maintenance, and repair on low- and high- voltage electrical systems in building and electrical distribution systems. *Skill Level 20:* Duties may include performing user maintenance on electrical test equipment and tools; performing minor maintenance on small electrical motors, generators, and controllers; performing elementary algebraic electrical calculations of voltage, current, resistance, and power; serving as marine electrician aboard vessels; installing low-voltage electrical lighting and some outside distribution apparatus and hardware such as cables, conduits, outlets, panels and poles, crossarms, insulators, and conductors; taking emergency action in the event of injury to other persons. NOTE: May have progressed to 51R20 from 51A10 (Construction and Utilities Worker.) *Skill Level 30:* Duties may include those required for Skill Level 20 and installing, maintaining, inspecting, and repairing high-voltage electrical transmission systems; erecting poles and towers for power transmission and maintaining auxiliary equipment; estimating size and capacity of conductors and transformers to serve a specific area; performing cable tests for malfunctions and splicing cable; using electrical instruments to measure voltage, current, and phase angle; using and testing hot-line protective equipment; taking emergency action in case of injury, including first aid for electrical shock. *Skill Level 40:* Duties may include those required for Skill Level 20 or 30 and supervising the installation, maintenance, and repair of high-voltage electric transmission systems; advising on complex construction work, sequence of work operations, and work procedures; instructing subordinates in erection and maintenance of high-voltage electric transmission systems; planning complete installation for wiring of buildings. *Skill Level 50:* Duties may include those required for Skill Level 40 and serving as a first-line supervisor or mid-level manager; establishing workloads and maintenance priorities; implementing quality control measures; conducting on-the-job training; providing technical assistance; serving as the personnel director for over 50 persons.

Recommendation, Skill Level 20

Credit in basic electricity on the basis of institutional evaluation. Advanced standing in a construction electrician or an electrical lineman apprentice training program on the basis of employer or trade association performance examination (3/76).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity. In the upper-division baccalaureate category, a minimum of 3 semester hours in industrial electricity and electronics (in programs preparing students for careers as power use advisors, electrical equipment sales agents, and company technical representatives). Advanced standing in a construction electrician or an electrical lineman apprentice training program on the basis of employer or trade association performance examination (3/76).

Recommendation, Skill Level 40

The recommendation for educational credit is the same as that for Skill Level 30 plus, in the upper-division baccalaureate category, 3 additional semester hours in industrial electricity and electronics and 2 in introduction to management, for a total of 8 semester hours. Advanced standing in a construction electrician or an electrical lineman apprentice training program on the basis of employer or trade association performance examination (3/76).

Recommendation, Skill Level 50

The recommendation for educational credit is the same as that for Skill Level 30 plus, in the upper-division baccalaureate category, 3 additional semester hours in industrial electricity and electronics, 3 in introduction to management, and 3 for field experience in management, for a total of 12 semester hours. Advanced standing in a construction electrician or an electrical lineman apprentice training program on the basis of employer or trade association performance examination (3/76).

MOS–52B–001

POWER GENERATION EQUIPMENT OPERATOR/MECHANIC

52B20
52B30

Exhibit Dates: 10/73–9/74.

Career Management Field: 52(Power Production), *subfield* 521 (Electric Power Production).

Description

Summary: Operates and performs routine maintenance on general and multipurpose portable generator sets. *Skill Level 20:* Operates and performs preventive maintenance on portable generators, arc welders, and frequency converters equipped with electric motors or with diesel or gas engines; uses mechanical and electrical handtools, and measuring and testing devices; computes voltage, amperage, and resistance; computes electrical power requirements, selects number of generators needed; determines phase rotation and load cable sizes; starts and synchronizes generators and sets control devices to attain power output; keeps maintenance records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs organizational maintenance on multipurpose portable generators, frequency converters, switch gear, load bands, control panels; uses special tools and test equipment; troubleshoots, adjusts, diagnoses, and replaces assemblies.

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in power plant operation. In the lower-division baccalaureate/associate degree category, credit on the basis of institutional evaluation. In a power plant operator apprentice training program, 1,000 clock hours of experience and 282 contact hours of related instruction (3/75).

Recommendation, Skill Level 30

In the vocational certificate category, 15 semester hours in power plant operation. In the lower-division baccalaureate/associate degree category, credit on the basis of institutional evaluation. In a power plant operator apprentice training program, 6,000 clock hours of experience and 300 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/75).

MOS–52B–002

POWER GENERATION EQUIPMENT OPERATOR/MECHANIC

52B10
52B20
52B30

Exhibit Dates: 10/74–Present.

Career Management Field: 52 (Power Production), *subfield* 521 (Electric Power Production).

Description

Summary: Operates and performs routine maintenance on general and multipurpose portable generator sets. *Skill Level 10:* Performs as substation electrical helper or power generation helper; performs routine tests and minor repairs on motors, generators, starting and control equipment, and auxiliary equipment; applies fundamentals of AC and DC electricity to motors and generators; loads and unloads tools and equipment; performs preventive maintenance on equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates and performs maintenance on general purpose portable generators, arc welders, frequency converters equipped with AC or DC electric motors, diesel or gasoline engines, and auxiliary equipment; performs mechanical and electrical installations, adjustments, maintenance repairs, or modifications; applies fundamentals of electronics and mechanics; interprets technical manuals and traces schematic diagrams; performs diagnostic tests with specified electronics and pneumatic measuring instruments, including multimeters, amp probes, diode and transistor tester, tachometers, motor-generator testers, pressure guages, and engine-timing equipment; monitors engine and generator operation with the use of various tachometers, voltmeters, current meters, frequency meters, and watt meters; makes the necessary adjustments required to bring engines, generators, and loads within specified values for balanced and efficient operation; employs various mechanic's and electrician's handtools; keeps maintenance records. *Skill Level 30:* Able to perform the duties required for Skill Level 20; troubleshoots, adjusts, diagnoses, replaces modules, and performs operational tests on equipment; performs maintenance on multi-purpose auxiliary generators, frequency converters, switch gears, load bands, control panels, and equipment; may supervise up to 15 subordinate personnel.

Recommendation, Skill Level 10

In the vocational certificate category, 2 semester hours in basic mathematics, 2 in basic electricity theory and laboratory, 2 in fundamentals of combustion engines, 2 in fundamentals of diesel engines, 2 in generator/motor theory and laboratory, 2 in AC electrical prin-

ciples and 2 in power generator systems, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 2 in power mechanics, 2 in applied electricity, and 2 in applied mechanics, for a total of 9 semester hours. Advanced standing in a power plant operator (electric power and light) apprentice training program of the basis of employer or trade association performance examination (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in basic electricity theory and laboratory, 4 in power generator systems, 2 in basic mathematics, 2 in fundamentals of combustion engines, 2 in fundamentals of diesel engines, 2 in generator/motor theory and laboratory, 2 in AC electrical principles, and 2 in safety, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in power mechanics, 3 in applied electricity, and 3 in applied mechanics, for a total of 12 semester hours. In a power plant operator (electric power and light) apprentice training program, 1,000 clock hours of experience and 300 contact hours of related instruction (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in basic electrical theory and laboratory, 4 in power generator systems, 2 in basic mathematics, 2 in fundamentals of combustion engines, 2 in fundamentals of diesel engines, 2 in generator/motor theory and laboratory, 2 in AC electrical principles, and 2 in safety, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in power mechanics, 3 in applied electricity, and 3 in applied mechanics, and additional credit in personnel supervision and human relations on the basis of institutional evaluation, for a minimum total of 12 semester hours. In a power plant operator (electric power and light) apprentice training program, 6,000 clock hours of experience and 300 contact hours of related instruction. Journeyman status achieved through employer trade association performance examination (6/76).

MOS–52C–001

POWER PACK SPECIALIST

52C20

Exhibit Dates: 10/73–Present.

Career Management Field: 52 (Power Production), *subfield* 521 (Electric Power Production).

Description

Able to perform the duties of 52B30 (Power Generation Equipment Operator/Mechanic); operates and performs maintenance on gas turbine driven generator sets and power pack units; diagnoses, troubleshoots, repairs, inspects, adjusts, and test-operates equipment; uses voltmeters and ohmmeters; may perform maintenance on related equipment, including internal-combustion engines and refrigeration and air conditioning equipment; applies theory of generators, pneumatics, hydraulics, and multiphase power production; reads electrical schematics and uses engine analyzers.

Recommendation

In the vocational certificate category, 4 semester hours in basic electrical theory and laboratory, 4 in power generator systems, 2 in basic mathematics, 2 in fundamentals of combustion engines, 2 in fundamentals of diesel engines, 2 in generator/motor theory and laboratory, 2 in AC electrical principles, and 2 in safety, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electricity, 3 in power mechanics, 3 in applied electricity, and 3 in applied mechanics, and additional credit in personnel supervision and human relations on the basis of institutional evaluation, for a minimum total of 12 semester hours. In an industrial maintenance electrician apprentice training program, 6,000 clock hours of experience and 300 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (6/76).

MOS–52D–001

POWER GENERATION EQUIPMENT REPAIRMAN

52D20

52D40

Exhibit Dates: 10/73–Present.

Career Management Field: 52 (Power Production), *subfield* 521 (Electric Power Production).

Description

Summary: Supervises or performs maintenance on power generation equipment. *Skill Level 20:* Must be able to perform the duties of 52B30 (Power Generation Equipment Operator/Mechanic); repairs power generation equipment; disassembles, repairs, reassembles, tests, adjusts, and inspects major items, assemblies, subassemblies, and components of electrical equipment including motors, generators, portable power generator sets, frequency converters, arc welders, switch gear, electrical load banks, water purification sets, ion exchange units, electrical forklifts, battery charging panels, and light sets; repairs gas turbine, gasoline, and diesel engines; troubleshoots and diagnoses mechanical and electrical malfunctions; disassembles, repair and reassembles static and rotating exciters, and static and dynamic AC and DC voltage regulators and related equipment; rewinds AC and DC motors and generators; uses standard and special hand and power tools, and test equipment including gas turbine engine analyzer, automatic electrical tester, oscilloscopes, precision voltage and frequency meters, electronic tachometers, multimeters, and industrial analyzers. NOTE: May have progressed to 52D20 from 52B30 (Power Generation Equipment Operator/Mechanic) or 52C20 (Power Pack Specialist). *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises repairs, overhauls, disassemblies/assemblies, tests, adjustments, and inspections of power generation equipment; conducts on-the-job training; establishes work priorities, work and shift schedules, shop administrative practices, and inspection procedures; prepares and keeps maintenance forms and records.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in AC/DC motor generator theory and laboratory, 4 in basic electricity/electronics theory and laboratory, 3 in industrial electricity, 2 in basic mathematics, 2 in semiconductor devices, 2 in instrument applications, 2 in fundamentals of small engine repair, 2 in fundamentals of combustion engine repair, 2 in fundamentals of diesel engine repair, 2 in fundamentals of turbine engine repair, and 2 in safety, for a total of 29 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity/electronics theory and laboratory, 6 in power mechanics, 2 in semiconductor devices, 2 in industrial electricity, and 2 in electronic instrumentation, for a total of 18 semester hours. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as a maintenance equipment repairman (electric power and light) (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity/electronics theory and laboratory, 6 in power mechanics, 3 in industrial safety, 3 in human relations, 3 in personnel supervision, 3 in introduction to management, 2 in semiconductor devices, 2 in industrial electricity, and 2 in electronic instrumentation, for a total of 30 semester hours. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as a maintenance equipment repairman (electric power and light) (6/76).

MOS–52E–001

POWER STATION OPERATOR

52E20

52E40

Exhibit Dates: 10/73–Present.

Career Management Field: 52 (Power Production), *subfield* 521 (Electric Power Production).

Description

Summary: Operates or supervises operation of substation or generating system. *Skill Level 20:* Operates and maintains generating station equipment; inspects, tests, modifies, and performs installations and preventive maintenance of substation or generating station electrical equipment; starts, stops, and regulates motor, gas engine, diesel engine, and turbine engine driven generators; makes required voltage, power, frequency, and phase compensations in order to maintain specified electrical requirements; performs engine or motor input/output power inspections, tests, and adjustments as needed for providing proper operation of generator; uses fundamental electronics knowledge, schematic tracing, and electronics instruments in performing diagnostic tests on systems, circuits, and components; uses multimeters, oscilloscopes, clamp-on ammeters, insulation testers, generator-motor testers, diode-transistor testers, signal generators, tachometers, impedance bridges, and pressure guages; troubleshoots and repairs down to actual discrete electronic components in solid-state or saturable reactor voltage regulators; makes adjustments or repairs overall phases of gas engines or diesel engines, including oil changes, ignition system tune-ups, carburetor adjustments, engine disassembly, valve grindings, and starter motor repairs; is qualified to perform preventive maintenance and repairs of other similar electromechanical equipment including arc welders, air conditioners, refrigeration units, dehumidifiers and small engines; as a power station operator, measures, records, and interprets data from electrical, pneumatic, and hydraulic instruments; performs on-site maintenance, including draining oil, cleaning, examining and replacing minor parts; operates boilers, on steam powered floating plants; may be responsible for the supervision of other operators and mechanics. *Skill Level 40:* Must be able to perform the duties required for Skill Level 20; supervises operation of generating station, substations, or portable power generators; supervises installations, preventive maintenance, safety, inspections, and parts and equipment requisitioning; conducts on-the-job training.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in AC/DC motor generator theory and laboratory, 4 in basic electricity/electronics theory and laboratory, 3 in industrial electricity, 2 in basic mathematics, 2 in semiconductor devices, 2 in instrument applications, 2 in fundamentals of small engine repair, 2 in fundamentals of combustion engine repair, 2 in fundamentals of diesel engine repair, 2 in fundamentals of turbine engine repair, and 2 in safety, for a total of 29 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity/electronics theory and laboratory, 6 in power mechanics, 2 in semiconductor devices, 2 in industrial electricity, and 2 in electronic instrumentation, for a total of 18 semester hours. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as a maintenance equipment repairman (electric power and light) (6/76).

Recommendation, Skill Level 40

In thd vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in basic electricity/electronics theory and laboratory, 6 in power mechanics, 3 in industrial safety, 3 in human relations, 3 in personnel supervision, 3 in introduction to management, 2 in semiconductor devices, 2 in industrial electricity, and 2 in electronic instrumentation, for a total of 30 semester hours. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as a maintenance equipment repairman (electric power and light)(6/76).

MOS–52H–001

NUCLEAR POWER PLANT MECHANIC OR OPERATOR

52H20

Exhibit Dates: 10/73–Present.

Career Management Field: 52 (Power Production), *subfield* 522 (Nuclear Power Production).

Description

Operates and repairs mechanical systems and auxiliary and standby equipment of an Army nuclear power plant; reads schematic diagrams and mechanical drawings; introduces control instrumentation, power conversion equipment, station service electrical system, associated pumps, and chemical feed systems; observes and interprets instrument readings; interprets nuclear, mechanical, and electrical problems involving mathematical formulas; calibrates, adjusts, repairs, and tests operation of mechanical equipment, including turbines, control rod drives, pumps, air compressors, heat exchanges, economizers, chlorinators, and diesel-driven auxiliary generating equipment; uses handtools, precision-measuring devices, and electrically and pneumatically operated power tools. NOTE: An individual assigned MOS 52H may have extensive additional training and experience as an Army-certified nuclear power plant operator (comparable to the position defined in the Code of Federal Regulations, Title 10, Part 55) or as an Army-certified nuclear welder.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in physics, 6 in mathematics, 6 in mechanical engineering, 6 in electrical engineering, 6 in engineering technology, and 3 in chemistry, and additional credit in communications and in technical writing on the basis of institutional evaluation, for a minimum total of 33 semester hours. In the upper-division baccalaureate category, 6 semester hours in physics or in engineering; and, *for those persons with Army certification as a nuclear power plant operator,* 15 additional semester hours in physics and/or engineering, for a maximum total of 21 semester hours (6/76).

MOS–52J–001

NUCLEAR POWER PLANT ELECTRICIAN OR OPERATOR

52J20

Exhibit Dates: 10/73–Present.

Career Management Field: 52 (Power Production), *subfield* 522 (Nuclear Power Production).

Description

Repairs electrical components of Army nuclear power plant equipment; observes instructions and records indications; adjusts temperature, pressures, flow rates, and process liquid levels; applies provisions of National Electrical Code governing installation, modification, and repair of electrical wiring and equipment; traces wiring and equipment diagrams; troubleshoots electrical systems; interprets nuclear, mechanical, and electrical problems involving mathematical formulas; wires, repairs, and tests operation of switchgear, circuit breakers, motors, transformers, generators, high and low voltage distributors, transmission systems, and protective and self-synchronizing devices; solders connections and splices cables; assists in refueling operations. NOTE: An individual assigned MOS 52J may have extensive additional training and experience as an Army-certified nuclear power plant operator (comparable to the position defined in the Code of Federal Regulations, Title 10, Part 55) or as an Army-certified nuclear welder.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in physics, 6 in mathematics, 6 in mechanical engineering, 6 in electrical engineering, 6 in engineering technology, and 3 in chemistry, and additional credit in communications and in technical writing on the basis of institutional evaluation, for a minimum total of 33 semester hours. In the upper-division baccalaureate category, 6 semester hours in physics or in engineering; and, *for those persons with Army certification as a nuclear power plant operator,* 15 additional semester hours in physics and/or engineering, for a maximum total of 21 semester hours (6/76).

MOS–52K–001

NUCLEAR POWER PLANT INSTRUMENTMAN OR OPERATOR

52K20

Exhibit Dates: 10/73–Present.

Career Management Field: 52 (Power Production), *subfield* 522 (Nuclear Power Production).

Description

Operates controls and equipment and installs and repairs electrical, electronic, and pneumatic instrumentation; establishes startup conditions in power conversion equipment, station service electrical system, control instrumentation, associated pumps, and chemical feed systems; observes and interprets instrument readings; operates diesel-driven auxiliary generating equipment; troubleshoots Army nuclear power plant instrumentation systems, using schematic and wiring diagrams; installs, calibrates, adjusts, repairs, and tests instrumentation and control equipment; installs electrical, electronic, and pneumatic instruments; repairs or replaces circuit wiring, coaxial cables, vacuum tubes, semiconductors, and saturable core devices; uses multimeters, oscilloscopes, transistor test sets, signal generators, and pressure and vacuum comparators; interprets nuclear, mechanical, and electrical problems involving mathematical formulas. NOTE: An individual assigned MOS 52K may have extensive additional training and experience as an Army-certified nuclear power plant operator (comparable to the position defined in the Code of Federal Regulations, Title 10, Part 55) or as an Army-certified nuclear welder.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in physics, 6 in mathematics, 6 in mechanical engineering, 6 in electrical engineering, 6 in engineering technology, and 3 in chemistry, and additional credit in communications and in technical writing on the basis of institutional evaluation, for a minimum total of 33 semester hours. In the upper-division baccalaureate category, 6 semester hours in physics or in engineering; and, *for those persons with Army certification as a nuclear power plant operator,* 15 additional semester hours in physics and/or engineering, for a maximum total of 21 semester hours (6/76).

MOS–52L–001

NUCLEAR POWER PLANT PROCESS CONTROL SPECIALIST OR OPERATOR

52L20

Exhibit Dates: 10/73–Present.

Career Management Field: 52 (Power Production), *subfield* 522 (Nuclear Power Production).

Description

Serves as a health physicist; conducts radiological surveys of personnel, equipment, work areas, and reactor elements, and carries out safety and decontamination procedures; establishes startup conditions in power conversion equipment, station service electrical system, control instrumentation, associated pumps, and chemical feed systems; observes and interprets instrument readings; sustains temperature, pressures, flow rates, and process liquid levels; interprets nuclear, mechanical, and electrical problems; operates diesel-driven auxiliary generating equipment; applies techniques for volumetric, gravimetric, colorimetric, and radiochemical analysis of water; determines alpha, beta, gamma, and neutron activities in air, water, and solid samples; converts radiation levels into millicuries; computes radiation levels, exposure time limits, accumulated dosages, and radiation counter efficiencies; employs slide rule, logarithm tables, and chemical and mathematical formulas; performs decontamination procedures; establishes and monitors plant radiological safety program. NOTE: An individual assigned MOS 52L may have extensive additional training and experience as an Army-certified nuclear power plant operator (comparable to the position defined in the Code of Federal Regulations, Title 10, Part 55) or as an Army-certified nuclear welder; also may be specialized in health physics, water chemistry, or instrumentation.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in physics, 6 in mathematics, 6 in mechanical engineering, 6 in electrical engineering, 6 in engineering technology, and 3 in chemistry, and additional credit in communications and in technical writing on the basis of institutional evaluation, for a minimum total of 33 semester hours. In the upper-division baccalaureate category, 6 semester hours in physics or in engineering and 3 in health physics, and, *for those persons with Army certification as a nuclear power plant operator,* 15 additional semester hours in physics and/or engineering, for a maximum total of 24 semester hours (6/76).

MOS–52M–001

NUCLEAR POWER PLANT CHIEF

52M40

52M50

Exhibit Dates: 10/73–Present.

Career Management Field: 52 (Power Production), *subfield* 522 (Nuclear Power Production).

Description

Summary: Supervises the operation and maintenance of an Army nuclear power plant. *Skill Level 40:* Able to perform the duties required for 52H20 (Nuclear Power Plant Mechanic or Operator), 52J20 (Nuclear Power Plant Electrician or Operator), 52K20 (Nuclear Power Plant Instrumentman or Operator), or 52L20 (Nuclear Power Plant Process Control Specialist or Operator). *When Army-certified as a senior reactor operator,* serves as a nuclear power plant shift supervisor or, in a small nuclear power plant, as the maintenance supervisor; supervises operating and maintenance activities and takes appropriate actions to insure efficient and safe operation of the nuclear power plant; prepares technical and administrative reports on nuclear power plant operation and maintenance; instructs subordinates in plant operation and maintenance; makes independent technical decisions on small plant nu-

clear power facilities maintenance; supervises plant activities in the absence of plant supervisor or superintendent. NOTE: In some cases, an individual assigned 52M40 may *not* be Army-certified as a senior reactor operator and may instead perform the maintenance and special functions required for 52H20, 52J20, 52K20, or 52L20. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as the maintenance supervisor in a large nuclear power plant or as the supervisor of a small or large nuclear power plant; serves as the first sergeant of a company; assists in planning, coordinating and supervising all operations and activities; advises the company commander on all personnel matters; directs and coordinates company administration; directs and conducts on-the-job training; holds meetings with subordinate supervisors to provide instructions and guidance; inspects facilities to insure safety measures are followed; coordinates support activities, such as supply and food service; periodically serves as a chief instructor in a formal training facility.

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in physics, 6 in mathematics, 6 in mechanical engineering, 6 in electrical engineering, 6 in engineering technology, 3 in chemistry, 3 in technical writing, and 3 in human relations, and additional credit in personnel supervision on the basis of institutional evaluation, for a minimum total of 39 semester hours. In the upper-division baccalaureate category, 6 semester hours in physics or in engineering; and, *for those persons with Army certification as a nuclear power plant operator,* 15 additional semester hours in physics and/or engineering, for a maximum total of 21 semester hours (6/76).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours in physics or in engineering, 6 for field experience in management, 3 in introduction to management, 3 for an internship in education, 3 in industrial arts education (engineering technology), and 3 in health physics, for a total of 24 semester hours; and, *for those persons with Army certification as a nuclear power plant operator,* 15 additional semester hours in physics and/or engineering, for a maximum total of 39 semester hours (6/76).

MOS–53B–001

OXYGEN-ACETYLENE PRODUCTION SPECIALIST

53B20

53B40

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 513 (Industrial Gas Production).

Description

Summary: Operates oxygen-acetylene plants to manufacture gaseous nitrogen, oxygen, and acetylene. *Skill Level 20:* Has some basic knowledge of applied science, such as laws of gases, liquification and separation of air, theory of cooling, fractional distillation, basic instrumentation, chemistry of acetylene, forms of energy, changes of state, theory of carbon dioxide, and hydrogen production; employs safety measures; combats fires caused by chemicals. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor; isolates and corrects equipment malfunctions; coordinates plant operations and maintenance; enforces safety rules; writes routine, special, and technical reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in applied science and additional credit on the basis of institutional evaluation (3/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in applied science, 2 in personnel supervision, and 1 in technical writing, and additional credit on the basis of institutional evaluation, for a minimum total of 6 semester hours (3/75).

MOS–53C–001

CARBON DIOXIDE–HYDROGEN PRODUCTION SPECIALIST

53C20

53C40

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 513 (Industrial Gas Production).

Description

Summary: Operates carbon dioxide-hydrogen production plants. *Skill Level 20:* Operates a mobile production plant to manufacture carbon dioxide, dry ice, and hydrogen; prepares site for equipment installation, positions trailers, and connects piping, hoses, and power lines; starts up, operates, and shuts down gas producing, solidification, and related equipment; changes cylinders and packs solid carbon dioxide; employs safety measures in handling hydrogen and carbon dioxide under high pressure and at extremely low temperatures and knows how to combat petroleum fires; performs preventive maintenance on equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises 1–4 carbon dioxide or hydrogen generating complexes; coordinates plant operations and maintenance; enforces safety rules and makes inspections; supervises storage and issue of gaseous and solid products; compiles reports on hydrogen and carbon dioxide generation.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in fire safety, 2 in first aid and chemical protection, and 2 in mechanical maintenance, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in first aid and chemical protection and 1 in fire safety (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 2 semester hours in first aid and chemical protection, 1 in fire safety, and 3 in human relations, for a minimum total of 6 semester hours; *if grade E-6 was achieved,* 3 additional semester hours in personnel supervision, for a total of 9 semester hours; and *if grade E-7 was achieved,* 3 additional semester hours for field experience in management, for a total of 12 semester hours (6/76).

MOS–54A–001

CHEMICAL OPERATIONS ASSISTANT

54A10

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 54A was discontinued and its functions were incorporated into MOS 54C, Smoke and Flame Specialist; MOS 54D, Chemical Equipment Repairman; and MOS 54E, Chemical Operations Specialist.)

Career Management Field: 54 (Chemical).

Description

Assists in technical operations in chemical units such as chemical decontamination, smoke and flame, and laboratory units; assists in the preparation, use, and handling of CBR (chemical, biological, and radiological warfare) weapons and munitions, decontaminants, herbicides, and riot control agents; assists in the operation of and performs preventive maintenance on chemical mechanical equipment, using common hand and power tools; learns, and complies with, safety precautions for handling chemicals and first aid procedures.

Recommendation

In the vocational certificate category, 2 semester hours in first aid and chemical safety, 2 in mechanical maintenance, and 2 in use and care of tools, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in first aid and chemical safety (5/76).

MOS–54B–001

DECONTAMINATION SPECIALIST

54B20

54B40

54B50

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 54B was discontinued and its functions were incorporated into MOS 54E, Chemical Operations Specialist.)

Career Management Field: 54 (Chemical).

Description

Summary: Supervises or performs activities related to neutralizing and decontaminating harmful chemical agents. *Skill Level 20:* Able to perform the duties required for 54A10 (Chemical Operations Assistant); performs duties related to chemical decontamination; performs standard tests to determine type, degree, and extent of contamination; prepares decontaminants; drives vehicles; determines decontamination levels after treatments; cleans and performs preventive maintenance on decontamination equipment; reads and interprets maps. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises personnel and equipment involved in a decontamination team of 8–25 persons; instructs in techniques, policies, and procedures of decontamination; instructs in first aid for toxic warfare casualties; plans decontamination activities; estimates amounts of decontaminants to be used; supervises preparation of the decontamination agents; supervises operation of equipment for applying decontaminating agents; prepares relevant records and reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager, serving as first sergeant of a company; assists in planning, coordinating, and supervising all company activities; advises company commander on all personnel matters; coordinates operation of company food service and supply activities; assists in accomplishing unit teaching.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance, 3 in use and care of tools, 2 in first aid and chemical safety, and 1 in map reading, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in first aid and chemical safety and 1 in map reading, and additional credit in applied chemistry on the basis of institutional evaluation, for a minimum total of 3 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 for field experience in management, 2 in first aid and chemical safety, and 1 in map reading, and additional credit in applied chemistry on the basis of institutional evaluation, for a minimum total of 12 semester hours (5/76).

Recommendation, Skill Level 50

In the vocational certificate category, the

recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, and 3 in personnel management, for a total of 12 semester hours (5/76).

MOS–54C–001

SMOKE AND FLAME SPECIALIST

54C20
54C40
54C50

Exhibit Dates: 10/73–2/77.

Career Management Field: 54 (Chemical).

Description

Summary: Operates or supervises the operation of smoke and flame equipment to provide smokescreens or flame support in combat operations. NOTE: Able to perform the duties required for 54A10 (Chemical Operations Assistant). *Skill Level 20:* Serves as smoke generator operator; operates and performs preventive maintenance on smoke and flame equipment; selects location to set up smoke equipment and smoke munitions; makes adjustments to smoke generators to obtain desired screening smoke; evaluates smokescreen effectiveness. Serves as flame fuel equipment operator or as flamethrower driver; identifies targets and assists in loading and firing self-propelled flamethrowers; maintains flamethrowing equipment in operating condition; follows safety precautions and administers first aid for injury from chemical agents; reads maps. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor for a smoke section or platoon or a flamethrower section or platoon; prepares map overlays; supervises the transportation of smoke generating and flame equipment; assigns personnel; directs and conducts training; assists officers in the continuous appraisal of chemical operations and training; keeps records and prepares technical reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serving as operations sergeant, supervises activities pertaining to organization, training, and technical operations of chemical smoke generator battalion; serving as the first sergeant of a company, is a mid-level manager responsible for personnel actions, unit training, supplies, inspections, and tactical operations and directly supervises approximately 8–10 noncommissioned officers; may serve as a chief instructor in a formal training facility. NOTE: May have progressed to 54C50 from 54C40 or 54B50 (Decontamination Specialist).

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in first aid and 1 in use and care of tools (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 for field experience in management, and 2 in instructional methods, for a total of 11 semester hours (6/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 for field experience in management, 3 for public speaking, and 2 in instructional techniques, for a total of 14 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in introduction to management, and 3 in personnel management, for a total of 9 semester hours (6/76).

MOS–54C–002

SMOKE AND FLAME SPECIALIST

54C10
54C20

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–54D–001

CHEMICAL EQUIPMENT REPAIRMAN

54D20
54D40
54D50

Exhibit Dates: 10/73–2/77.

Career Management Field: 54 (Chemical).

Description

Summary: Repairs or supervises the repair of chemical equipment NOTE: Able to perform the duties required for 54A10 (Chemical Operations Assistant). *Skill Level 20:* Performs maintenance on chemical equipment, such as gas masks, smoke generators, and flamethrowers, and on decontaminating equipment; inspects, tests, adjusts, and cleans equipment; disconnects and assembles equipment components such as carburetor, fuel pump, or furnace assembly; uses common handtools; performs rough repair of damaged metal parts, such as sawing and soldering; saws canvas pieces to repair gas masks; replaces irreparable components, such as broken gas mask eyepieces. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises from 9 to 40 persons involved in the repair of chemical equipment and may serve as a maintenance inspector; establishes priorities and assigns work; requisitions supplies; establishes work methods and performance standards; directs and conducts on-the-job training; keeps maintenance records and prepares technical reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serving as a first sergeant of a company, is a mid-level manager responsible for operations, personnel, actions, unit training, supplies, and inspections; makes recommendations to officers on all related matters; holds meetings with subordinate noncommissioned officers to provide them instructions and guidance.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in mechanical maintenance, 2 in first aid and chemical safety, 1 in use and care of tools, and 1 in map reading (basic surveying), for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in first aid and chemical safety (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in human relations, 3 in personnel supervision, 2 in instructional methods, and 2 in first aid and chemical safety, for a total of 13 semester hours (6/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in introduction to management, and 3 in personnel management, for a total of 9 semester hours (6/76).

MOS–54D–002

CHEMICAL EQUIPMENT REPAIRMAN

54D10
54D20

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–54E–001

CHEMICAL STAFF SPECIALIST

54E20
54E40
54E50

Exhibit Dates: 10/73–2/77.

Career Management Field: 54 (Chemical).

Description

Summary: Supervises or assists in the establishment, administration, and application of chemical, biological, and radiological health programs. *Skill Level 20:* Supervises communities during emergencies and disasters; prepares reports and maintains records; understands chemical toxicology, radiation dangers, and the effect of weather on chemical and radiation hazards; uses testing and detecting equipment; identifies physiological and behavioral effects of chemical agents and administers first aid to affected personnel. NOTE: May have progressed to 54E20 from 54A10 (Chemical Operations Assistant). *Skill Level 40:* Able to perform the duties required for Skill Level 20; uses advanced techniques for detecting, identifying, and analyzing chemical agents; as a first-line supervisor, trains personnel and plans and coordinates the acquisition, storage, and use of chemical and radiological agents and materials. NOTE: May have progressed to 54E40 from 54E20, 54B40 (Decontamination Specialist), 54C40 (Smoke and Flame Specialist), 54D40 (Chemical Equipment Repairman), or 92D40 (Chemical Laboratory Specialist). *Skill Level 50:* Able to perform the duties required for Skill Level 40; as an experienced senior supervisor, trains several hundred personnel, appraises the effectiveness of technical operations involving chemical agents and materials, and analyzes chemical and radiological data. NOTE: May have progressed to 54E50 from 54E40 or 54D50 (Chemical Equipment Repairman).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in administration or management, 3 in biology, 3 in cartography or meteorology, 3 in educational techniques, 3 in general chemistry, 3 in health science, 3 in physics, and 6 in laboratory techniques, for a total of 27 semester hours (2/75).

Recommendation, Skill Levels 40 and 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in biology, 3 in cartography or meteorology, 3 in educational techniques, 3 in general chemistry, 3 in physics, 6 in administration or management, 6 in health sciences, and 9 in laboratory techniques, for a total of 36 semester hours (2/75).

MOS–54E–002

CHEMICAL OPERATIONS SPECIALIST

54E10
54E20
54E30
54E40

54E50

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–55B–001

AMMUNITION STORAGE AND OPERATIONS SPECIALIST

55B20
55B30
55B40

Exhibit Dates: 10/73–9/74.

Career Management Field: 55 (Ammunition).

Description

Summary: Receives, inspects, classifies, stores, and issues ammunition; keeps records of warehouse transactions. *Skill Level 20:* Under supervision, works as a storekeeper, controlling stock and keeping inventory data. *Skill Level 30:* Able to perform the duties required for Skill Level 20; functions as a senior storekeeper with a minimum of supervision; prepares and maintains files and special records systems; operates office equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; is a first-line supervisor of storage facility personnel; organizes and manages warehouse operations; has in-depth knowledge of storage systems.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in office skills (2/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in office skills (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in office skills, records management, or personnel supervision. In the upper-division baccalaureate category, 3 semester hours in business administration (2/75).

MOS–55B–002

AMMUNITION SPECIALIST (AMMUNITION STORAGE AND OPERATIONS SPECIALIST)

55B10
55B20
55B30
55B40

Exhibit Dates: 10/74–Present.

Career Management Field: 55 (Ammunition).

Description

Summary: Receives, inspects, classifies, stores, and issues ammunition; keeps records of warehouse transactions. *Skill Level 10:* Serves as an ammunition storage assistant or records clerk; assists in the receipt, storage, issue, and maintenance of all types of conventional and chemical ammunition, ammunition components, and explosives; loads, unloads, stacks, and stores ammunition supplies and explosives, including guided missiles, using material handling equipment; prepares ammunition for shipment by bracing and staying loads; inventories ammunition in storage; assists in upkeep of operations area and facilities; applies safety precautions to ammunition storage, handling, and maintenance; assists in the routine destruction of unserviceable and irreparable conventional and chemical ammunition and explosives. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; performs emergency destruction of ammunition; prepares periodic statistical reports on issue, receipt and storage functions. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises Skill Level 10 and Skill Level 20 personnel; plans and organizes ammunition storage facilities and maintenance operations; estimates requirements for personnel, tools, equipment, and supplies; supervises the establishment and maintenance of ammunition stock control records. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises ammunition supply operations, including maintenance of non-nuclear ammunition; performs as technical advisor; prepares activity reports; assigns duties to subordinate personnel; supervises the setting up and camouflaging of ammunition supply and maintenance facilities.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in explosives (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in explosives and 3 in supply procedures (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in explosives and 3 in supply procedures. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 in human relations (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in explosives and 3 in supply procedures. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 3 for field experience in management (6/76).

MOS–55D–001

EXPLOSIVE ORDNANCE DISPOSAL SPECIALIST

55D10
55D20
55D30
55D40
55D50

Exhibit Dates: 3/76–Present.

Career Management Field: 55 (Ammunition).

Description

Summary: Supervises or performs disposal activities related to explosive devices. *Skill Level 10:* Assists in the location, identification, rendering safe, removal, and destruction of explosive ordnance other than nuclear fission or fusion materials; uses detection instruments to determine hazards and to define or delineate exclusion areas; decontaminates explosive devices as required; assists in isolating explosive and/or contaminated areas; removes obstructions surrounding explosive devices; makes photographs and radiographs; operates and performs maintenance on explosive disposal equipment, tools, and vehicular equipment; including radiac equipment, radios, and chemical detection equipment; cooperates with and supports law enforcement agencies and protection services. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs render-safe and disposal procedures for nuclear devices; destroys or neutralizes unserviceable and irreparable explosive conventional devices; reads and interprets radiographs, diagrams, drawings, and technical literature; identifies all explosives by appearance and markings; performs radiation monitoring and evaluates existing and potential hazards associated with nuclear devices. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises 4 or more subordinate personnel; prepares technical intelligence and incident reports; develops and/or modifies render-safe procedures for conventional explosive devices; conducts classes; assists in unit administration, supply, security, and record management; assumes command of an explosive disposal team. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises 5 or more subordinate personnel; performs administrative and supervisory activities for the disposal unit including personnel, supply, maintenance, security, training, and management; consolidates, edits, and reviews disposal reports; maintains liaison with supporting security units; coordinates operations and movements; prepares order and operating procedures. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises entire disposal operation unit under direction of unit commander; coordinates operations and movements; supervises activities of several disposal teams over a wide geographical area; oversees and supervises coordination and liaison with supporting units; assumes command of unit in absence of commander.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in explosives or mechanical technology and 1 in photography (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in explosives or mechanical technology, 2 semester hours in blueprint interpretation, and 1 in photography, for a minimum total of 9 semester hours; and, *if the duty assignment was nuclear explosive ordnance specialist,* 3 additional semester hours in nuclear technology, for a total of 12 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 2 semester hours in technical writing, 2 in maintenance management, 3 in human relations, and 3 in public speaking, for a total of 10 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, 3 semester hours in radiation physics, 3 in introduction to management, and 3 for field experience in management, for a total of 9 semester hours (6/76).

Recommendation, Skill Level 50

In the vocational certificate category the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical writing, 3 in maintenance management, 3 in human relations, 3 in public speaking, and 6 for innovative explosive devices, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in radiation physics, 3 in introduction to management, and 6 for field experience in management, for a total of 12 semester hours (6/76).

MOS–55G–001

NUCLEAR WEAPONS MAINTENANCE SPECIALIST

55G10
55G20
55G30
55G40

Exhibit Dates: 10/73–Present.

Career Management Field: 55 (Ammunition).

Description

Summary: Supervises or performs mainte-

nance and surveillance of nuclear weapons trainers, and associated electrical, mechanical, and nuclear components. *Skill Level 10:* Assembles, tests, and adjusts electrical and mechanical components to insure proper operation; uses common and specialized handtools, power tools, and test equipment; performs surveillance and monitoring operations for radioactive matter; applies appropriate safety procedures; packages, unpacks, paints, and stencils weapons, components, and containers. *Skill Level 20:* Able to perform the duties required for Skill Level 10; test-operates weapons components; receives, stores, and inspects (preissue and preload) nuclear components; uses radioactive survey equipment; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises and instructs Skill Level 10 and Skill Level 20 personnel in MOS 55G and 35F (Nuclear Weapons Electronics Specialist); calculates workloads, coordinates work activities, and makes assignments; prepares training charts, documents, and materials; strictly adheres to regulations and appropriate inspection techniques and procedures in the maintenance, modification, repair, transportation, and maintenance calibration of nuclear weapons and associated trainers, testers, and handling equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises, coordinates, and inspects maintenance facilities, activities, operations, and productivity; helps plan all maintenance activities; serves as an electronics technical advisor; reviews safety and fire regulations, standing operating procedures, and the utilization of equipment, and recommends changes; has office management responsibilities, including records, and forms management, correspondence, security standards, and personnel processing.

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in mechanical maintenance, 2 in electrical maintenance, 2 in use and care of handtools, powertools, and test equipment, 1 in safety practices and procedures, and 1 in shop operations, for a total of 7 semester hours. Advanced standing in an electrical maintenance apprentice training program, on the basis of employer or trade association performance examination (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 2 semester hours in toxic material handling and 1 in nuclear technology. Advanced standing in an electrical maintenance apprentice training program, on the basis of employer or trade association performance examination (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in safety practices and procedures, 2 in electrical maintenance, 2 in use and care of handtools, powertools, and test equipment, 2 in shop operations, and 1 in mechanical maintenance, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in maintenance management, 3 in human relations, 2 in toxic material handling, and 1 in nuclear technology, and additional credit in nuclear technology on the basis of institutional evaluation, for a minimum total of 9 semester hours. Advanced standing in an electrical maintenance apprentice training program, on the basis of employer or trade association performance examination (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in maintenance management, 3 in human relations, 3 in office management, 3 in personnel supervision, 2 in toxic material handling, and 1 in nuclear technology, and additional credit in nuclear technology on the basis of institutional evaluation, for a minimum total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management. Advanced standing in an electrical maintenance apprentice training program, on the basis of employer or trade association performance examination (6/76).

MOS–55X–001

AMMUNITION INSPECTOR

55X30
55X40

Exhibit Dates: 3/76–Present.

Career Management Field: 55 (Ammunition).

Description

Summary: Conducts inspections and tests to determine the serviceability of conventional and non-nuclear special ammunition, components, and related package materials. *Skill Level 30:* Inspects ammunition to determine deterioration; evaluates safety procedures; inspects incoming and outgoing ammunition shipments; inspects magazines, storage sites, and surrounding areas for storage safety; inspects ammunition destruction sites for safety condition; selects ammunition samples for tests, evaluations, or investigations; instructs in surveillance and safety techniques; performs function tests of selected ammunition items; maintains files. NOTE: May have progressed to 55X30 from 55B30 (Ammunition Specialist), 55D30 (Explosive Ordnance Disposal Specialist), or 55G30 (Nuclear Weapons Maintenance Specialist). *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as the principal advisor on ammunition surveillance and safety matters and provides technical guidance to subordinate personnel; reviews safety requirements; coordinates surveillance activities with civilian authorities and inspectors.

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in explosives, 3 in supply procedures, 3 in quality control, and 3 in safety inspection procedures, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations and 1 in office procedures (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 for field experience in management, and 3 in office procedures, for a total of 12 semester hours (6/76).

MOS–55Z–001

AMMUNITION FOREMAN

55Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 55 (Ammunition).

Description

Serves as the principal supervisor and advisor for the receipt, issue, classification, storage, surveillance, maintenance, disposition, and decontamination of conventional ammunition and nuclear and non-nuclear special ammunition; advises on packaging and rigging loads for movement by all types of transportation; assists in the selection and layout of ammunition storage facilities; recommends employment of and requirements for technical assistance teams, labor, equipment, and supplies; assists in the preparation of plans, policies, and procedures; prepares and reviews evaluations and reports on operations and training activities; analyzes ammunition stock with automatic data processing data; advises commander on all enlisted personnel matters. NOTE: May have progressed to 55Z50 from 55B40 (Ammunition Specialist), 55G40 (Nuclear Weapons Maintenance Specialist), or 55X40 (Ammunition Inspector).

Recommendation

In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in business administration, 3 in human relations, and 6 for field experience in management, for a total of 18 semester hours (6/76).

MOS–57D–001

SAWYER

57D10
57D20
57D40
57D50

Exhibit Dates: 10/74–Present.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Summary: Performs logging and sawmill operations. *Skill Level 10:* Serves as a lumberjack helper; assists in felling trees; trims branches; saws trunks into logs; lashes logs to skids or trucks and drags or hauls logs to sawmill; saws logs and stacks lumber at mill. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as lumberjack, millwright, timber cruiser, or lumber grader; distinguishes different species of trees and chooses proper saws; fells trees; grades lumber; services logging and sawmill equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises 15 or more persons involved in logging and sawmill operations; understands the effects of logging operations on the terrain and selects cutting areas, taking into consideration the types of lumber required, efficiency, and protection of the terrain from overcutting; calculates lumber content of logs and estimates board footage of standing trees based on diameter and height; supervises drying and storing of lumber; explains and demonstrates logging and sawmill techniques. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager serving as first sergeant of a company; assists in planning, coordinating, and supervising company activities; advises commander on all personnel matters and handles personnel activities; holds meetings with subordinate supervisors to provide them instructions and guidance; directs training.

Recommendation, Skill Level 10

No credit because of the limited technical nature of the skills, competencies, and knowledge (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in use of tools and credit in a lumber specialist, saw filer, sawyer, or millwright program on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, credit in forest resources technology or forest management on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in use of tools and 2 in shop mathematics, and credit in a lumber specialist, saw filer, sawyer, or millwright program on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 3 in forest management, for a minimum total of 9 semester hours, and additional credit in forest resources technology on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 6 for field experience in management, for a total of 9 semester hours (6/76).

MOS–57E–001

LAUNDRY AND BATH SPECIALIST

57E10
57E20
57E40
57E50

Exhibit Dates: 10/74–2/77.

Career Management Field: 57 (Field Services), *subfield* 571 (Services).

Description

Summary: Performs or supervises laundry, bath, and impregnation functions and related activities at fixed and mobile locations. *Skill Level 10:* Assists in the operation of laundry and bath equipment; operates fumigation and delousing equipment; assists in the maintenance of related equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates mobile laundry and bath equipment; troubleshoots and maintains related equipment; uses washing, impregnation, and contamination solutions. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises field units providing laundry, bath, and fumigation services; selects suitable operational sites; supervises setting up field units and equipment; coordinates the scheduling of personnel; supervises preventive maintenance of laundry, impregnation, fumigation, and bath equipment; supervises the training of personnel in techniques and operations; prepares reports related to laundry and bath operations. *Skill Level 50:* Able to perform the duties required for Skill Level 40; as a mid-level manager, advises superiors on personnel matters, coordinates the operation of food service and supply operations; receives and maintains personnel reports; assists in conducting unit training.

Recommendation, Skill Levels 10 and 20

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (11/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to management, 2 in personnel management, 2 in records administration, and 1 in first aid, for a total of 8 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management, and 3 for field experience in management (11/75).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to management, 2 in personnel management, 3 in records administration, 1 in first aid, and 2 in safety techniques, for a total of 11 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 6 for field experience in management (11/75).

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–57F–001

MEMORIAL ACTIVITIES SPECIALIST

57F10
57F20
57F40
57F50

Exhibit Dates: 10/74–2/76.

Career Management Field: 57 (Field Services), *subfield* 572 (Memorial Activities).

Description

Summary: Recovers, identifies, processes, and inters human remains; performs duties at disaster sites as well as within the community; provides technical data to validate the personal identification process; designs cemetery facilities and directs funeral activities; prepares topographic sketches and map overlays for temporary cemetery planning and for site searches and recovery operations. *Skill Level 10:* Under supervision, performs as a mortuary assistant. *Skill Level 20:* Functions as a mortuary technician alone or as a senior team member. *Skill Level 40:* Functions as a first-line supervisor of a mortuary operation; prepares reports and maintains records. *Skill Level 50:* As a mid-level manager, plans, organizes, and directs mortuary service operations and is responsible for administrative services for subordinate staff.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, credit in mortuary sciences and map reading on the basis of institutional evaluation (11/75).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in mortuary sciences. In the lower-division baccalaureate/associate degree category, 3 semester hours in mortuary sciences and 3 in physical anthropology (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in mortuary sciences. In the lower-division baccalaureate/associate degree category, 6 semester hours in mortuary sciences and 3 in physical anthropology, and additional credit in mortuary sciences, speech, map reading, and report writing on the basis of institutional evaluation, for a minimum total of 9 semester hours. In the upper-division baccalaureate category, 3 semester hours in mortuary sciences and 3 in introduction to management, for a total of 6 semester hours (11/75).

Recommendation, Skill Level 50

In the vocational certificate category, 12 semester hours in mortuary sciences. In the lower-division baccalaureate/associate degree category, 9 semester hours in mortuary sciences, 3 in physical anthropology, and 3 in office administration, and additional credit in mortuary sciences, speech, map reading, and report writing, on the basis of institutional evaluation, for a minimum total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in mortuary sciences, 3 in introduction to management, and 3 for field experience in management, for a total of 9 semester hours (11/75).

Career Management Field: 57 (Field Services), *subfield* 572 (Memorial Activities).

Description

Summary: Recovers, identifies, processes, and inters human remains; performs duties at disaster sites as well as within the community; provides technical data to validate the personal identification process; designs cemetery facilities and directs funeral activities. *Skill Level 10:* Under supervision, serves as a mortuary assistant, assisting in the recovery, transportation, identification, and interment of remains. *Skill Level 20:* Able to perform the duties required for Skill Level 10; functions as a mortuary technician alone or as a team member; reads or indicates the location of graves on maps, sketches, or overlays; takes fingerprints or prepares teeth chart; writes descriptions of physical and anatomical characteristics; operates x-ray apparatus and camera. *Skill Level 40:* Able to perform the duties required for Skill Level 20; functions as a first-line supervisor of a mortuary operation; prepares topographical sketches and map overlays; prepares reports and records on processed remains, grave location, registers, master locator files, and memorial activities work. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as a mid-level manager, directing and supervising mortuary activities operations; coordinates operations with combat units.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in map reading and credit in mortuary sciences on the basis of institutional evaluation (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in mortuary sciences and 1 in map reading. In the lower-division baccalaureate/associate degree category, 6 semester hours in mortuary sciences, 3 in physical anthropology, 2 in anatomy and physiology, and 1 in map reading, for a total of 12 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in mortuary sciences and 1 in map reading. In the lower-division baccalaureate/associate degree category, 9 semester hours in mortuary sciences, 3 in physical anthropology, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, 2 in technical report writing, 2 in anatomy and physiology, and 1 in map reading, for a total of 26 semester hours. In the upper-division baccalaureate category, 3 semester hours in mortuary sciences and 3 in introduction to management (5/76).

Recommendation, Skill Level 50

In the vocational certificate category, 12 semester hours in mortuary sciences and 1 in map reading. In the lower-division baccalaureate/associate degree category, 12 semester hours in mortuary sciences, 3 in physical anthropology, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, 2 in technical report writing, 2 in anatomy and physiology, and 1 in map reading, for a total of 29 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in personnel management, 3 in introduction to management, 3 in mortuary sciences, and 3 in records administration, for a total of 18 semester hours (5/76).

MOS–57E–002

LAUNDRY AND BATH SPECIALIST

57E10
57E20
57E30
57E40
57E50

MOS–57F–002

MEMORIAL ACTIVITIES SPECIALIST

57F10
57F20
57F40
57F50

Exhibit Dates: 3/75–2/77.

MOS–57F–003

GRAVES REGISTRATION SPECIALIST

57F10
57F20
57F30
57F40
57F50

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–57H–001

CARGO HANDLER

57H20
57H40
57H50

Exhibit Dates: 10/73–2/74.

Career Management Field: 65 (Transportation), *subfield* 651 (Terminal Service).

Description

Summary: Transfers or supervises the transfer of cargo to and from water, land, and air transports by manual and mechanical methods. *Skill Level 20:* Performs the duties of rigger, longshoreman, member of a hatch gang, or assistant hatch foreman. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises one or more hatch gangs of longshoremen in loading and unloading cargo, employing stowage plans, loading plans, manifests, documentation forms, reports, and other cargo handling forms. *Skill Level 50:* Able to perform the duties required for Skill Level 40; equivalent to an assistant to a port captain or a marine operations specialist; plans, coordinates, and supervises all activities related to the stowage, loading, and discharging of dry cargo.

Recommendation, Skill Level 20

In the vocational certificate category, 7 semester hours in cargo handling and rigging (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 13 semester hours in cargo handling, stowage, and rigging. In the lower-division baccalaureate/associate degree category, 3 semester hours for a practicum in personnel management, 2 in cargo processing and documentation, 2 in cargo planning, and 1 in transportation of dangerous materials, for a total of 8 semester hours (2/75).

Recommendation, Skill Level 50

In the vocational certificate category, 13 semester hours in cargo handling, stowage, and rigging. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel management, 3 in office management, 2 in cargo processing and documentation, 2 in cargo planning, and 1 in transportation of dangerous materials, for a total of 11 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 in office management. In the graduate degree category, 3 semester hours in organization and management (2/75).

MOS–57H–002

TERMINAL OPERATIONS SPECIALIST

57H10
57H20
57H40
57H50

Exhibit Dates: 3/74–2/76.

Career Management Field: 65 (Transportation), *subfield* 651 (Terminal Service).

Description

Summary: Transfers or supervises the transfer of cargo to and from water, land, and air transports by manual and mechanical methods. *Skill Level 10:* Loads and unloads supplies and equipment from ships, docks, beaches, boxcars, aircraft, and warehouses; assists cargo checker; employs safety procedures. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs the duties of rigger, longshoreman, member of a hatch gang, or assistant hatch foreman. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises one or more hatch gangs of longshoremen in loading and unloading cargo, employing stowage plans, loading plans, manifests, documentation forms, reports, and other cargo handling forms. *Skill Level 50:* Able to perform the duties required for Skill Level 40; equivalent to an assistant to a port captain or a marine operations specialist; plans, coordinates, and supervises all activities related to the stowage, loading, and discharging of dry cargo.

Recommendation, Skill Level 10

In the vocational certificate category, 2 semester hours in cargo handling and rigging (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 7 semester hours in cargo handling and rigging (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 13 semester hours in cargo handling, stowage, and rigging. In the lower-division baccalaureate/associate degree category, 3 semester hours for a practicum in personnel management, 2 in cargo processing and documentation, 2 in cargo planning, and 1 in transportation of dangerous materials, for a total of 8 semester hours (5/76).

Recommendation, Skill Level 50

In the vocational certificate category, 13 semester hours in cargo handling, stowage, and rigging. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel management, 3 in office management, 2 in cargo processing and documentation, 2 in cargo planning, and 1 in transportation of dangerous materials, for a total of 11 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 in office management. In the graduate degree category, 3 semester hours in organization and management (5/76).

MOS–57H–003

TERMINAL OPERATIONS COORDINATOR

57H10
57H20
57H30
57H40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 641 (Surface Operations).

Description

Summary: Transfers or supervises the transfer of cargo to and from water, land, and air transports by manual and mechanical methods. *Skill Level 10:* Serves as cargo handler and checker; loads, unloads, checks, and tallies cargo; uses slings, nets, hooks, pallets, spreaders, lifting bars, winches, hoists, and other cargo-handling equipment; employs safety procedures; signals winchman hoistman, or cargo equipment operator where to move cargo. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as hatch foreman or senior cargo checker and enforces safety practices. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises a medium-sized terminal operation work force by planning and organizing work schedules, assigning duties, and designating work groups (hatch gangs) as required for each operation; advises on the handling of all types of cargo and demonstrates techniques and use of equipment; coordinates heavy lift equipment and special terminal operations gear; prepares technical, personnel, and administrative reports. *Skill Level 40:* Performs the duties required for Skill Level 30 in the supervision of a large terminal work force normally consisting of 56 or more subordinate personnel.

Recommendation, Skill Level 10

In the vocational certificate category, 4 semester hours in cargo handling and rigging (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 7 semester hours in cargo handling and rigging (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 13 semester hours in cargo handling, stowage, and rigging. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 2 in report writing, 2 in cargo planning, 2 in cargo processing and documentation, and 1 in transportation of dangerous materials, for a total of 13 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 13 semester hours in cargo handling, stowage, and rigging. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 in records administration, 3 in report writing, 3 for field experience in management, 2 in cargo processing and documentation, 2 in cargo planning, and 1 in transportation of dangerous materials, for a total of 20 semester hours (5/76).

MOS–61B–001

WATERCRAFT OPERATOR

61B20
61B30
61B40

Exhibit Dates: 10/73–9/74.

Career Management Field: 65 (Transportation), *subfield* 653 (Marine).

Description

Summary: Performs the deck duties of an ordinary seaman, able seaman, and deck hand; operates towboats. *Skill Level 20:* Rigs tows; operates and performs preventive maintenance on deck machinery; performs tasks requiring marlinespike seamanship; is lead deck hand on towing vessels. *Skill Level 30:* Able to perform the duties required for Skill Level 20; works as a lookout or helmsman; plots courses; knows the rules of the road. Skills are comparable to those of able seaman (tugboat) and second-class towboat operator. *Skill Level 40:* Able to perform the duties required for Skill Level 30; can be in complete charge of towing vessels up to 300 gross registered tons; steers vessels; manages the crew; provides berthing and unberthing assistance to large vessels; plans vessel maintenance; ensures the safety of vessels and barges.

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in seamanship (2/75).

Recommendation, Skill Level 30

In the vocational certificate category, 5 semester hours in seamanship and 3 in basic navigation (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in seamanship, 3 in basic navigation, and 3 in advanced navigation, for a total of 11 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in navigation and 3 in basic management (2/75).

MOS–61B–002

WATERCRAFT OPERATOR

61B10
61B20
61B30

61B49

Exhibit Dates: 10/74–Present.

Career Management Field: 64 (Transportation), *subfield* 642 (Marine Operations).

Description

Summary: Operates and performs deck duties on Army watercraft and, in some instances, amphibians. *Skill Level 10:* Performs general seaman duties; under close supervision, assists in docking, undocking, and anchoring watercraft; assists in loading and unloading cargo; stands lookout watch; assists in inspecting, servicing, and operating fire equipment, lifeboats, and rafts; performs preventive maintenance on and inspections of Army watercraft; maneuvers Army watercraft; uses simple sounding devices, aids to navigation, steering compass courses, and running lights; communicates with stations ashore and afloat, using accepted communications equipment and techniques; applies basic water safety and rescue procedures. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates and dispatches Army watercraft and, under close supervision, allocates and operates Army watercraft for a specific mission in accordance with navigational and communications rules and principles; keeps records of watercraft status and movements. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises the operation of watercraft and small boat crew; knows capabilities and limitations of Army watercraft and assigns and dispatches them accordingly; provides berthing and unberthing services to large or oceangoing vessels; computes fuel requirements and plans maintenance; knows procedures for abandoning ship, including sea rescue and lifeboat operations; supervises embarking and debarking of troops; instructs subordinate personnel in watercraft operational practices, procedures, and techniques. NOTE: Some Skill Level 30 personnel are trained as operators of large amphibian vehicles and can supervise their operation. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises the operations of a large boat crew or assists in controlling Army watercraft operations; coordinates work activities; performs the supervisory and managerial duties described for Skill Level 30; reviews, consolidates, and prepares technical, personnel, and administrative reports; supervises up to 20 persons.

Recommendation, Skill Level 10

In the vocational certificate category, 4 semester hours in seamanship, 1 in piloting, 1 in communications, and 1 in safety, for a total of 7 semester hours (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 8 semester hours in seamanship, 6 in piloting and navigation, 3 in communications, and 1 in safety, for a total of 18 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 8 semester hours in seamanship, 6 in piloting and navigation, 3 in communications, 3 in basic navigation, 3 in advanced navigation, and 1 in safety, and additional credit in amphibian operation on the basis of institutional evaluation, for a minimum total of 24 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in navigation and 3 in human relations (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 8 semester hours in seamanship, 6 in piloting and navigation, 3 in communications, 3 in basic navigation, 3 in advanced navigation, and 1 in safety, and additional credit in amphibian operation on the basis of institutional evaluation, for a minimum total of 24 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in navigation, 3 in human relations, 3 in marine management, 3 for field experience in management, and 3 in personnel supervision, for a total of 15 semester hours (6/76).

MOS–61C–00:

MARINE ENGINEER

61C20
61C30
61C40

Exhibit Dates: 10/73–2/76.

Career Management Field: 65 (Transportation), *subfield* 653 (Marine).

Description

Summary: Supervises or performs maintenance and repair of GM Series 71 and similar-size marine diesels, small gas engines, and auxiliary equipment on harbor towing and deep sea towing vessels. NOTE: Able to perform the duties required for 61B10 (watercraft operator). *Skill Level 20:* Performs routine maintenance such as changing strainers and filters and installing bearings and bushings as required; monitors engine room equipment to assure proper operation; skills are comparable to those of a licensed oiler on a towing vessel, an unlicensed engineer on towing vessels of 200 gross registered tons and under, an assistant mechanic in a marine diesel engine shop, or an outside machinist in a shipyard. *Skill Level 30:* Able to perform the duties required for Skill Level 20; tears down engines and auxiliary equipment and replaces or repairs parts as necessary; skills are comparable to those of a head mechanic in a marine diesel repair shop and are related to those of an auto mechanic. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises engine room operations on a towing vessel; advises on complex repair problems; instructs repairmen in proper maintenance procedures and safety techniques; applies production and quality control procedures to maintenance operations; skills are comparable to those of a foreman in a marine diesel repair shop or an assistant port engineer for a towing company.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in internal-combustion engine principles (2/75).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in internal-combustion engine operation, 3 in internal-combustion engine principles, 3 in internal-combustion engine repair, and 3 in basic refrigeration, for a total of 12 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in internal-combustion engine operation, 3 in internal-combustion engine principles, 3 in internal-combustion engine repair, and 3 in basic refrigeration, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic management (2/75).

MOS–61C–002

WATERCRAFT ENGINEER

61C10
61C20
61C30
61C40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 642 (Marine Operations).

Description

Summary: Supervises or performs maintenance on Army watercraft and on propulsion systems and auxiliary equipment of marine vessels, and, in some instances, on amphibians. *Skill Level 10:* Under close supervision, performs maintenance on Army watercraft; applies safety precautions pertinent to starting, stopping, and operating main diesel engines, electrical machinery, and other auxiliary components installed on board Army watercraft; reads and records pressures and temperatures to insure safe and efficient operation of machinery; uses hand and power tools; assists in performing preventive maintenance inspections and correcting maintenance shortcomings and deficiencies on watercraft. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel, computes fuel consumption, tank capacities, and pumping rates for loading and discharging; maintains a working knowledge of damage control, fire prevention, and federal, state, and local environmental pollution control regulations; adjusts or troubleshoots malfunctioning diesel engines, electrical machinery, and auxiliary equipment; makes emergency repairs or takes emergency damage control measures at sea; performs soldering and pipefitting; uses precision tools; interprets technical publications; replaces engine and auxiliary equipment subassemblies; performs preventive maintenance inspections on watercraft; in some instances, may also perform these duties on amphibians. *Skill Level 30:* Able to perform the duties required for Skill Level 20; evaluates job performance of subordinate enginemen; maintains a reference library of technical manuals and service bulletins; interprets technical blueprints; troubleshoots, repairs, purges, recharges, and tests watercraft refrigeration systems; uses special test equipment and instruments in repairing diesel engines and accessory items; assists supervisor in engineering maintenance functions; plans and organizes work schedules and assigns duties to subordinates; instructs subordinates in work production and quality control procedures; assures adherence to safety procedures; is capable of supervising a medium-sized watercraft maintenance facility; establishes physical layout of work site and ensures maintenance of an efficient, clean, and safe work environment; requisitions, issues, stores, and maintains records of supplies and equipment; coordinates work activities with other maintenance elements; recommends changes to technical publications as required; in some instances, may also perform these duties on amphibians. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a large marine maintenance facility; performs managerial duties as indicated in previous skill levels; estimates and prepares preliminary budget forecasts of supply and maintenance activities; allocates funds and resources for the efficient operation of supply and maintenance activities; establishes operating procedures on the basis of directives and information received from superiors.

Recommendation, Skill Level 10

In the vocational certificate category, 4 semester hours in internal-combustion engine principles, 1 in internal-combustion engine operation, and 1 in shipboard operations, for a total of 6 semester hours (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 7 semester hours in internal-combustion engine principles, 4 in internal-combustion engine operation, and 5 in shipboard operations, and additional credit in amphibian maintenance on the basis of institutional evaluation, for a minimum total of 16 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 7 semester hours in internal-combustion engine principles, 5 in shipboard operations, 4 in internal-combustion engine operation, 3 in basic refrigeration, and 3 in use and care of tools and test equipment, and additional credit in amphibian maintenance on the basis of institutional evaluation, for a minimum total of 22 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in watercraft maintenance, 3 in marine refrigeration, and 3 in human relations, and additional credit in amphibian maintenance on the basis of institutional evaluation, for a minimum total of 9 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 7 semester hours in internal-combustion engine principles, 5 in shipboard operations, 4 in internal-combustion engine operation, 3 in basic refrigeration, and 3 in use and care of tools and test equipment, and additional credit in amphibian maintenance on the basis of institutional evaluation, for a minimum total of 22 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in watercraft maintenance, 3 in marine refrigeration, 3 in human relations, 3 in introduction to management, 3 in personnel supervision, and 3 for field experience in management, and additional credit in amphibian maintenance on the basis of institutional evaluation, for a minimum total of 18 semester hours (6/76).

MOS–61F–001

MARINE HULL REPAIRMAN

61F10
61F20
61F30
61F40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 642 (Marine Operations).

Description

Summary: Repairs hulls and accessories of Army watercraft and amphibians. *Skill Level 10:* Assists in the repair of all types of marine hulls and accessories; assists in laying out, measuring, cutting, shaping, and fabricating plastic and metal structures and parts; joins, fastens, and caulks new or repaired portions of the ship's hull by pinning, bolting, cementing, riveting, or welding; cleans, finishes, and preserves metal surfaces; employs working drawings to produce required shape dimensions, and fit of plates, planking, framing, and fitting. *Skill Level 20:* Able to perform the duties required for Skill Level 10; repairs and inspects marine hulls and accessories and provides technical guidance to Skill Level 10 personnel; performs inspections to identify defects and to determine supplies and equipment required to effect maintenance; examines repaired hulls and accessories to insure that repaired watercraft and amphibians are seaworthy. *Skill Level 30:* Able to perform duties required for Skill Level 20; supervises a small facility involved in repairing marine hulls and accessories; estimates repair work in terms of time, material, manpower, and priorities; plans and organizes work schedules and assigns duties to subordinate personnel; instructs and supervises subordinates in work techniques and procedures; requisitions, issues, stores, and maintains records of supplies and equipment; prepares maintenance records, reports, and work orders; reviews, consolidates, and prepares technical, personnel, and administrative reports; performs nondestructive testing. *Skill Level 40:* Able to perform the duties required for Skill Level 30; plans, directs, and coordinates the activities of a large facility involved in repair of marine hulls and accessories; plans and directs marine salvage operations on stranded or sunken craft; estimates all costs and establishes priority of tasks; supervises and directs nondestructive testing on harbor craft and amphibians.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in welding theory, 3 in gas welding, 3 in inert gas welding, 3 in vessel fabrication and construction, and 3 in vessel maintenance, for a total of 15 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, and 3 in personnel supervision (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 for field experience in management, 3 in maintenance management, and 3 in personnel supervision, for a total of 12 semester hours (6/76).

MOS–61Z–001

MARINE SENIOR SERGEANT

61Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 64 (Transportation), *subfield* 642 (Marine Operations).

Description

Is a mid-level manager responsible for approximately 150 subordinate personnel engaged in watercraft operation and maintenance; assists in planning, implementing, and coordinating administrative activities, operations, and training programs; prepares, edits, and consolidates reports, records, plans, and training materials. NOTE: May have progressed to 61Z50 from 61B40 (Watercraft Operator), 61C40 (Watercraft Engineer), or 61F40 (Marine Hull Repairman).

Recommendation

In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in personnel management, and 3 in records administration, for a minimum total of 15 semester hours; and *if the duty assignment was chief instructor*, 3 semester hours for an internship in education, for a total of 18 semester hours (6/76).

MOS–62B–001

ENGINEER EQUIPMENT REPAIRMAN

62B10
62B20
62B30
62B40
62B50

Exhibit Dates: 10/73–8/75.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Maintains and repairs construction and off-the-road equipment. *Skill Level 10:* Is a heavy equipment repairman helper; changes oil and filters; lubricates equipment; drains and flushes radiators; repairs tires and tubes; uses pioneer tools, winches, and related equipment; serves as a recovery vehicle or wrecker crewman; serves as a toolroom keeper. *Skill Level 20:* Able to perform the duties required for Skill Level 10; inspects equipment for damage and wear; services and adjusts engines, clutches, carburetors, fuel systems, cooling systems, electrical components, brakes, and transmission assemblies; rigs construction equipment; repairs or replaces wheel bearings; operates recovery vehicles and wreckers; uses oxyacetylene and electric welding equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; inspects, disassembles, and repairs power transmission units, engines, gears, shafts, and track and steering assemblies; reconditions and assembles such units as final drives, hydraulic systems, and crawler assemblies; uses precision measuring devices and power shop tools. *Skill Level 40:* Able to perform the duties required for Skill Level 30; organizes and coordinates maintenance shop activities; establishes work schedules and priorities; instructs and supervises subordinate personnel; applies quality and production control procedures; test-operates repaired equipment; supervises keeping of records; prepares reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; assists superiors in establishing maintenance policies and procedures; instructs subordinate supervisors; plans, coordinates, and oversees all maintenance activities; conducts on-the-job training; may serve as a chief instructor in a mechanical maintenance school.

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in use and care of tools and 3 in heavy equipment mechanics. In the lower-division baccalaureate/associate degree category, 3 semester hours in heavy equipment mechanics. In a heavy equipment mechanic apprentice training program, 700 clock hours of experience and 144 contact hours of related instruction (3/75).

Recommendation, Skill Level 20

In the vocational certificate category, 1 semester hour in use and care of tools, 1 in basic welding, and 6 in heavy equipment mechanics, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic welding and 6 in heavy equipment mechanics. In a heavy equipment mechanics apprentice training program, 1,000 clock hours of experience and 144 contact hours of related instruction (3/75).

Recommendation, Skill Level 30

In the vocational certificate category, 1 semester hour in use and care of tools, 1 in basic welding, and 15 in heavy equipment mechanics, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in basic welding and 15 in heavy equipment mechanics, and additional credit in heavy equipment mechanics on the basis of institutional evaluation, for a minimum total of 16 semester hours. In a heavy equipment mechanic or a heavy-duty truck mechanic apprentice training program, 6,000 clock hours of experience and 432 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/75).

Recommendation, Skill Level 40

In the vocational certificate category, 1 semester hour in use and care of tools, 1 in records administration, 3 in welding, and 15 in heavy equipment mechanics, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in records administration, 2 in personnel supervision, 3 in welding, and 15 in heavy equipment mechanics, and additional credit in heavy equipment mechanics on the basis of institutional evaluation, for a minimum total of 21 semester hours. In the upper-division baccalaureate category, credit in heavy equipment management on the basis of institutional evaluation. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as a heavy equipment mechanic or a diesel truck mechanic (3/75).

Recommendation, Skill Level 50

In the vocational certificate category, 1 semester hour in use and care of tools, 1 in records administration, 3 in welding, and 15 in heavy equipment mechanics, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 1 semester hour in records administration, 3 in welding, 3 in personnel supervision, and 15 in heavy equipment mechanics, and additional credit in heavy equipment mechanics on the basis of institutional evaluation, for a minimum total of 22 semester hours. In the upper-division baccalaureate category, credit in heavy equipment management on the basis of institutional evaluation; *if the duty was chief instructor*, a minimum of 3 semester hours for field experience in education and additional credit in education on the basis of institutional evaluation. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related

instruction) as a heavy equipment mechanic or a diesel truck mechanic (3/75).

MOS–62B–002

CONSTRUCTION EQUIPMENT REPAIRMAN (ENGINEER EQUIPMENT REPAIRMAN)

62B10
62B20
62B30
62B40

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Supervises or performs maintenance on engineer construction equipment, including powered bridging equipment. *Skill Level 10:* Performs maintenance on gasoline, diesel, and electrically powered engineer construction and associated equipment; performs preventive maintenance, including changing oil, replacing oil filters and air cleaners, draining and flushing radiators, and tightening body and chassis clamps and bolts; inspects, disassembles, repairs, and reassembles carburetors, fuel systems, cooling systems, electrical systems, transmission assemblies, and brake systems; reconditions and assembles such units as clutches, steering clutches, final drives, crawler assemblies, hydraulic systems, and track and stabilizer assemblies; uses hand tools, test equipment, powered shop tools, and oxyacetylene and electrical welding equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; diagnoses malfunctions and determines the level of maintenance to be performed; establisnes work priorities; writes work orders and makes assignments; instructs subordinate personnel in inspection, maintenance, and testing practices and procedures; applies quality and production control procedures; performs final inspection of repaired equipment; supervises keeping of work records; prepares reports of unit activities. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises engineer equipment maintenance and repair activities of a large unit, depot, or subordinate units; supervises between 15 and 60 mechanics.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in heavy equipment mechanics, 1 in basic welding, and 1 in use and care of tools, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in heavy equipment mechanics and 1 in basic welding. In a heavy equipment mechanic or diesel mechanic apprentice training program, 500 clock hours of experience and 315 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 10. In a heavy equipment mechanic or diesel mechanic apprentice training program, 1,500 clock hours of experience and 315 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 15 semester hours in heavy equipment mechanics, 3 in welding, 1 in use and care of tools, and 1 in records administration, and additional credit in heavy equipment mechanics on the basis of institutional evaluation, for a minimum total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 15 semester hours in heavy equipment mechanics, 3 in welding, 2 in personnel supervision, 1 in use and care of tools, and 1 in records administration, and additional credit in heavy equipment mechanics on the basis of institutional evaluation, for a minimum total of 22 semester hours. In the upper-division baccalaureate category, credit in heavy equipment management on the basis of institutional evaluation. In a heavy equipment mechanic or diesel mechanic apprentice training program, 6,000 clock hours of experience and 550 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 15 semester hours in heavy equipment mechanics, 3 in welding, 3 in personnel supervision, 1 in use and care of tools, and 1 in records administration, and additional credit in heavy equipment mechanics on the basis of institutional evaluation, for a minimum total of 23 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management, and additional credit in heavy equipment management on the basis of institutional evaluation, for a minimum total of 9 semester hours. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as a heavy equipment mechanic or diesel mechanic on the basis of employer or trade association performance examination (12/75).

MOS–62C–001

ENGINEER MISSILE EQUIPMENT SPECIALIST

62C20
62C30
62C40

Exhibit Dates: 10/73–Present.

Career Management Field: 52 (Power Production), *subfield* 521 (Electric Power Production).

Description

Summary: Installs, maintains, and repairs air compressors, gasoline engines, air conditioning units, elevators, and power generation equipment. *Skill Level 20:* Installs, maintains, and repairs portable generators, air compressors, gasoline engines, air conditioning units, and missile elevators; uses mechanical and electrical hand tools, and measuring and testing devices; isolates, diagnoses, and repairs equipment malfunctions. *Skill Level 30:* Able to perform the duties required for Skill Level 20; removes and replaces faulty assemblies and subassemblies; determines type of maintenance required; fabricates metal parts; test-operates new or repaired equipment; uses test equipment to trace electrical and refrigeration circuits; establishes on-the-job training programs; may supervise up to 9 personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; determines workload and prepares schedules and inspection reports; performs final inspection and test-operations on repaired equipment; supervises up to 18 persons.

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in air conditioning and refrigeration mechanics, 5 in basic electricity, 5 in electrical wiring, 5 in motor and generator repair, and 5 in diesel mechanics, for a total of 30 hours. In the lower-division baccalaureate/associate degree category, 8 semester hours in air conditioning and refrigeration repair, 3 in electrical wiring and controls, 3 in applied electricity, 3 in power mechanics, and 3 in diesel mechanics, for a total of 20 semester hours. Journeyman status as an industrial maintenance electrician (defined as 8,000 clock hours of experience and 576 contact hours of related instruction), as a construction electrician-residential (defined as 8,000 clock hours of experience and 576 contact hours of related instruction), or as an electric motor-and-tools repairman (defined as 6,000 clock hours of experience and 432 contact hours of related instruction) (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 12 semester hours in air conditioning and refrigeration mechanics, 5 in basic electricity, 5 in electrical wiring, 5 in motor and generator repair, 5 in diesel mechanics, and 2 in fabrication processes, for a total of 34 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in air conditioning and refrigeration repair, 4 in applied electricity, 3 in electrical wiring and controls, 3 in power mechanics, 3 in diesel mechanics, and 2 in human relations, and additional credit in personnel supervision, on the basis of institutional evaluation, for a minimum total of 24 semester hours. Journeyman status as an industrial maintenance electrician (defined as 8,000 clock hours of experience and 576 contact hours of related instruction), as a construction electrician-residential (defined as 8,000 clock hours of experience and 576 contact hours of related instruction), or as an electric motor-and-tools repairman (defined as 6,000 clock hours of experience and 432 contact hours of related instruction) (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 9 semester hours in air conditioning and refrigeration repair, 4 in applied electricity, 3 in electrical wiring and controls, 3 in power mechanics, 3 in diesel mechanics, 3 in human relations, 3 in personnel supervision, and 2 in introduction to management, for a total of 30 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts. Journeyman status as an industrial maintenance electrician (defined as 8,000 clock hours of experience and 576 contact hours of related instruction), as a construction electrician-residential (defined as 8,000 clock hours of experience and 576 contact hours of related instruction), or as an electric motor-and-tools repairman (defined as 6,000 clock hours of experience and 432 contact hours of related instruction) (6/76).

MOS–62D–001

ASPHALT EQUIPMENT OPERATOR

62D20
62D40

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Summary: Operates self-powered machines and accessories used in asphalt heating and dedrumming equipment, asphalt producing, and surfacing operations. *Skill Level 20:* Operates soil mixing, aggregate drying, asphalt distributing, and asphalt finishing machines to produce, lay, and finish asphalt products and surfaces; sets equipment controls for optimum efficiency; notes and corrects or assists in correcting any malfunctions or deficiencies in the operation of equipment; cleans, lubricates, inspects, and services paving machines. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises personnel engaged in asphalt producing and paving operations; supervises all phases of asphalt production and surfacing operations; interprets information contained in material gradation percentage charts; estimates work loads and schedules personnel and equip-

ment for continuous asphalt producing and surfacing operations; prepares operational reports as to hours, tonnage, and yardage output; keeps production and allied operations records.

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in asphalt paving machine operation and technology, 10 in asphalt plant operation and technology, 5 in construction material processing and storage, and 5 in basic construction equipment operation, for a total of 30 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in construction materials processing and application, 1 in functions of grades and grade stakes, 1 in introduction to construction equipment, 1 in grades and plans, and 1 in paving equipment, for a minimum total of 7 semester hours, and additional credit on the basis of institutional evaluation up to a maximum total of 30 semester hours (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 10 semester hours in asphalt paving machine operation and technology, 10 in asphalt plant operation and technology, 5 in construction material processing and storage, 5 in basic construction equipment operation, and 1 in recordkeeping, for a total of 31 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in construction material processing and application, 3 in construction management, 3 for field experience in management, 2 in personnel supervision, 1 in recordkeeping, 1 in functions of grades and grade stakes, 1 in introduction to construction equipment, 1 in grades and plans, and 1 in paving equipment, for a minimum total of 16 semester hours, and additional credit on the basis of institutional evaluation up to a maximum total of 40 semester hours. In the upper-division baccalaureate category, 3 semester hours of construction design and 2 in methods of construction, for a minimum total of 5 semester hours, and additional credit in management on the basis of institutional evaluation up to a maximum total of 9 semester hours (12/75).

MOS–62E–001

CRAWLER TRACTOR OPERATOR

62E20

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Operates crawler tractors and attachments, including towed scrapers; performs land-clearing, stripping, grubbing, earth-moving, and demolition tasks; spreads earth and rock fill; detects and identifies equipment malfunctions and assists in repairs; performs preventive maintenance such as cleaning, inspecting, lubricating, and minor adjustments and repairs.

Recommendation

In the vocational certificate category, 5 semester hours in heavy equipment operation and 5 in mechanical maintenance (12/75).

MOS–62F–001

CRANE OPERATOR

62F20

62F30

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Summary: Operates cranes and crane shovels of stationary, crawler, and truck-mounted types used to hoist and transport heavy objects and to perform excavation. *Skill Level 20:* Operates crane with hook and block operated by single drum; receives instructions from a supervisor on a specific work assignment; performs preoperation inspection and servicing on crane and related equipment; moves crane to and from worksite; determines lift and rigging requirements; performs after-operation inspection and maintenance. *Skill Level 30:* Able to perform the duties required for Skill Level 20; operates and maintains crane shovel with clamshell, dragline, shovel backhoe, piledriver, and related attachments; connects attachments and reaves cable.

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in single-drum crane operation (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 10 semester hours in single-drum crane operation, 1 in powertrains and undercarriages, and 1 in rigging, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in revolving shovel and crane equipment and 1 in material hoisting and handling (12/75).

MOS–62G–001

QUARRYMAN

62G20

62G30

62G40

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Summary: Operates electric, pneumatic, and internal combustion powered machines used in drilling, crushing, grading, and cleaning gravel and rock; detonates explosives to blast rock in quarries and at construction sites. *Skill Level 20:* Performs as a quarry machine operator; determines screen sizes and crusher settings to produce specification aggregate; identifies kind and quality of aggregate by simple field tests; notes and corrects or assists in correcting any machine malfunctions or deficiencies; performs preventive maintenance. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs as powderman; able to use explosives above ground, underground, and underwater; determines hole spacings and power charges; operates rock drills. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises all phases of quarry operations.

Recommendation, Skill Level 20

In the vocational certificate category, 5 semester hours in crusher operation and 5 in aggregate sampling and field testing. In the lower-division baccalaureate/associate degree category, 2 semester hours in crushing, screening, and washing plants and 1 in construction materials handling and storage (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 5 semester hours in crusher operation, 5 in aggregate sampling and field testing, and 2 in mining, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 2 in crushing, screening, and washing plants, 1 in construction materials handling and storage, 1 in mining and tunneling, and 1 in functions of grade stakes, for a total of 8 semester hours (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in field supervision, 5 in crusher operation, 5 in aggregate sampling and field testing, and 2 in mining, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical mathematics, 3 in field supervision, 2 in crushing, screening and washing plants, 1 in recordkeeping, 1 in construction materials handling and storage, 1 in mining and tunneling, and 1 in functions of grade stakes, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management (12/75).

MOS–62H–001

CONCRETE PAVING EQUIPMENT OPERATOR

62H20

62H40

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Summary: Operates self-powered machines used in concrete producing and paving operations. *Skill Level 20:* Sets up concrete producing and surfacing equipment; operates concrete batching plant, and mixing, spreading, and finishing machines to produce concrete by formula or specifications and to spread concrete to desired thickness; sets equipment controls for optimum efficiency; notes equipment malfunctions or deficiencies and repairs or assists in the repair of equipment; performs equipment maintenance services such as cleaning, lubricating, inspecting, and minor adjustments. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises all phases of concrete producing and paving operations; supervises personnel and assigns work; interprets and utilizes information contained in material gradation charts; prepares operational reports; instructs subordinate personnel.

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in concrete paving machine operation and technology, 10 in concrete plant operation and technology, 5 in construction material processing and storage, and 5 in basic construction equipment operation, for a total of 30 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in construction material processing and application, 1 in functions of grades and grade stakes, 1 in introduction to construction equipment, 1 in grades and plans, and 1 in paving equipment, for a minimum total of 7 semester hours, and additional credit on the basis of institutional evaluation up to a maximum total of 30 semester hours (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 10 semester hours in concrete paving machine operation and technology, 10 in concrete plant operation and technology, 5 in construction material processing and storage, 5 in basic construction equipment operation, and 1 in recordkeeping, for a total of 31 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in construction material processing and application, 3 in construction management, 3 for field experience in management, 2 in personnel supervision, 1 in recordkeeping, 1 in functions of grades and grade stakes, 1 in introduction to construction equipment, 1 in grades and plans, and 1 in paving equipment, for a minimum total of 16 semester hours, and additional credit on the basis of institutional evaluation up to a maximum total of 40 semester hours. In the upper-division baccalaureate category, 3 semester hours of construction design and 2 in methods of construction, for a minimum total of 5 semester hours, and additional credit in management on the basis of institutional evaluation up to a maximum total of 9 semester hours (12/75).

MOS–62J–001

GENERAL CONSTRUCTION MACHINE OPERATOR

62J20

62J30

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Summary: Operates a variety of equipment in support of construction projects, including air compressors, drilling equipment, pumps, soil processing equipment, materials application equipment; possesses a basic understanding of soils mechanics, strength of materials, hydrology, mechanics, concrete, and asphalt. *Skill Level 20:* Performs as a utility equipment operator; selects proper bits, power units, and attachments for drills, air compressors, pumps, and rotary equipment; notes and assists in repairing equipment malfunctions; performs preventive and operational maintenance and inspects equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as well driller, drilling water wells and developing existing dug wells; possesses sufficient knowledge of geology, hydrology, and soils to make a finite analysis of drill cores to determine whether the strata being examined can produce the desired amount of water; installs well casings; prepares and analyzes electronic well logs; performs preventive maintenance on electric well-logging equipment; sets up well screens and pumping equipment; grouts and gravel packs wells; analyzes terrain and geologic features to determine the best probable location for a well; follows proper safety procedures associated with drilling operations; maintains records of drilling operations and product output.

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in construction equipment operation and 10 in mechanical maintenance. In the lower-division baccalaureate/associate degree category, 5 semester hours in construction equipment operation and 5 in mechanical maintenance (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 40 semester hours and certification as a well drilling superintendent. In the lower-division baccalaureate/associate degree category, 5 semester hours in construction equipment operation, 5 in mechanical maintenance, 3 in electricity and electronics, and 3 in geology and hydrology, for a total of 16 semester hours (12/75).

MOS–62K–001

GRADER OPERATOR

62K20

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Operates construction motor grader and attachments under supervision; performs inspections and service on equipment; interprets information on surveyors' grade stakes; judges terrain and determines required action to alter variation to conform to construction design; spreads and grades aggregate-asphalt and soil-asphalt road mixes.

Recommendation

In the vocational certificate category, 10 semester hours in motor grader operation, 5 in machine maintenance, and 1 in grade and grade stakes, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in material processing and application, 2 in construction plans, 2 in power sources and power systems, and 1 in grades and grade stakes, for a total of 8 semester hours (12/75).

MOS–62L–001

WHEELED TRACTOR OPERATOR

62L20

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Operates wheeled tractors, rubber-tired dozers with attachments, self-propelled scrapers, and heavy-duty quarry trucks; interprets the information on grade stakes.

Recommendation

In the vocational certificate category, 10 semester hours in wheeled tractor operation (2/75).

MOS–62M–001

ROUGH TERRAIN FORKLIFT AND LOADER OPERATOR

62M20

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Operates rough-terrain forklifts and scoop loaders.

Recommendation

In the vocational certificate category, 10 semester hours in forklift and scoop loader operation (2/75).

MOS–62N–001

CONSTRUCTION MACHINE SUPERVISOR

62N40

62N50

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 514 (Construction Equipment Operation).

Description

Summary: Supervises construction machinery operations and operator and crew maintenance of equipment. *Skill Level 40:* Performs duties comparable to those of a civilian assistant job superintendent on a construction site; has technical skills, competencies, and knowledge equivalent to those acquired through an associate degree program in operating engineer technology; supervises employment of all kinds of construction machinery in support of construction operations; organizes machinery operations phases of construction projects; estimates equipment and operator requirements for specific jobs; coordinates construction machinery operations with related construction work; observes machine operations and inspects finished products; enforces safety rules; prepares reports on personnel, machine operations, training, and work progress; evaluates subordinates' work performance. NOTE: May have progressed to 62N40 from 51G20 (Soils Analyst), 62E20 (Crawler Tractor Operator), 62F30 (Crane Operator), 62J30 (General Construction Machine Operator), 62K20 (Grader Operator), 62L20 (Wheeled Tractor Operator), or 62M20 (Rough Terrain Forklift and Loader Operator). *Skill Level 50:* Able to perform the duties required for Skill Level 40; manages more than 200 persons engaged in a variety of construction equipment operation activities; performs duties comparable to those of a civilian construction superintendent of operations manager; as the principal noncommissioned officer in a construction equipment company, assists in planning, coordinating, and supervising all company activities; advises superiors on personnel matters. NOTE: May have progressed to 62N50 from 62N40, 62D40 (Asphalt Equipment Operator), 62G40 (Quarryman), or 62H40 (Concrete Paving Equipment Operator).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 10 semester hours in construction equipment, 25 for field experience in construction equipment operation, 3 in material processing and application, 3 in introduction to electricity, hydraulics, and pneumatics, 1 in basic powertrains and undercarriages, 1 in welding, rigging, soils, and compaction, 1 in fuels, oils, and lubricants, 1 in surveying (grades, grade stakes, and plans), and 1 in record administration, for a total of 46 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management (12/75).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in introduction to management, for a minimum total of 9 semester hours, and additional credit in construction management up to a maximum total of 30 semester hours (12/75).

MOS–63B–001

WHEEL VEHICLE MECHANIC

63B20

63B40

Exhibit Dates: 10/73–8/75.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Automotive Maintenance).

Description

Summary: Diagnoses malfunctions and repairs internal-combustion engines, accessories, powertrains, and chassis components of wheel vehicles; adjusts operating mechanisms such as valve tappets, carburetors, governors, ignition system points, control linkage, clutches, and brakes; performs tune-ups; operates wreckers. *Skill Level 20:* Replaces engine components such as fuel pumps, generators, regulators, brake shoes and fittings, and winches; road tests vehicles; prepares and keeps maintenance forms and records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor; establishes shop practices and procedures; plans and organizes work schedules and the use of facilities and equipment; instructs and supervises subordinate personnel; applies production and quality control principles; requisitions parts, tools, and supplies.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, up to 9 semester hours may be granted on the basis of institutional evaluation (3 semester hours in automotive mechanics, 3 in diesel mechanics, and 3 in truck mechanics). In an automotive, diesel, or truck mechanic apprentice training program, 400 clock hours of experience and 70 contact hours of related instruction (3/75).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in automotive mechanics, 5 in diesel mechanics, 5 in truck mechanics, and 1 in shop practices and procedures, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 5 semester hours in automotive mechanics, 5 in diesel mechanics, 5 in truck mechanics, and 3 in

personnel supervision and training, and additional credit on the basis of institutional evaluation, for a minimum total of 18 semester hours. In an automotive, diesel, or truck mechanic apprentice training program, 6,000 clock hours of experience and 140 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/75).

MOS–63B–002

WHEEL VEHICLE MECHANIC

63B10
63B20
63B30

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Diagnoses malfunctions and repairs internal-combustion engines, accessories, powertrains, and chassis components of wheel vehicles; adjusts operating mechanisms such as valve tappets, carburetors, governors, ignition system points, control linkage, clutches, and brakes; performs tune-ups; operates wreckers. *Skill Level 10:* Replaces engine components such as fuel pumps, generators, starters, regulators, radiators, universal joints, brake shoes, engine mounts, and lines and fittings; adjusts operating mechanisms; prepares maintenance forms and records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans and organizes work schedules; assigns duties; performs operational and administrative duties; instructs and supervises subordinate personnel in appropriate practices and procedures; requisitions spare parts, tools, and supplies.

Recommendation, Skill Level 10

In the vocational certificate category, 9 semester hours in automotive, diesel, or truck mechanics. In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics and additional credit on the basis of institutional evaluation. In an automotive, diesel, or truck mechanic apprentice training program, 400 clock hours of job experience and 70 contact hours of related instruction (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in automotive, diesel, or truck mechanics. In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, diesel, or truck mechanics and additional credit on the basis of institutional evaluation. In an automotive, diesel, or truck mechanic apprentice training program, 1,500 clock hours of experience and 70 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association preformance examination (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in automotive, diesel, or truck mechanics, 2 in personnel supervision, and 1 in records administration, and additional credit in automotive, diesel, or truck mechanics on the basis of institutional evaluation, for a minimum total of 12 semester hours. In an automotive, diesel, or truck mechanic apprentice training program, 2,000 clock hours of job experience and 70 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS–63C–001

TRACK VEHICLE MECHANIC

63C20
63C40

Exhibit Dates: 10/73–8/75.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Diagnoses wheel and track vehicles, using test equipment and sequential tests; applies knowledge of internal combustion engines and accessories, power trains, and chassis components of track vehicles; road tests vehicles; operates wreckers. *Skill Level 20:* Performs preventive maintenance and general servicing work, including tune-ups, on both gasoline and diesel combustion engines; keeps maintenance operating forms and records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor, planning and organizing work schedules, shop practices, and the use of facilities and equipment; instructs and supervises subordinate personnel; requisitions parts, tools, and supplies.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in automotive mechanics, 3 in diesel mechanics, and 3 in industrial truck mechanics, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in automotive mechanics, 3 in diesel mechanics, and 3 in industrial truck mechanics, for a maximum total of 9 semester hours, on the basis of institutional evaluation. In an automotive, diesel, or industrial truck mechanic apprentice training program, 1,000 clock hours of experience and 144 contact hours of related instruction (3/75).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in automotive mechanics, 5 in diesel mechanics, and 5 in industrial truck mechanics, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 5 semester hours in automotive mechanics, 5 in diesel mechanics, 5 in industrial truck mechanics, 3 in personnel supervision, and 1 in records administration, and additional credit on the basis of institutional evaluation, for a minimum total of 19 semester hours. In an automotive, diesel, or industrial truck mechanic apprentice training program, a minimum of 6,000 clock hours of experience and 214 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (3/75).

MOS–63C–002

TRACK VEHICLE MECHANIC

63C10
63C20
63C30
63C40

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Applies knowledge of operating principles of internal-combustion engines, accessories, powertrains, and chassis components to wheel and track vehicles. *Skill Level 10:* Performs detailed diagnoses of wheel and track vehicles; adjusts operating mechanisms such as valve tappets, carburetors, governors, ignition system points, linkage, clutches, and brakes; times magnetos, distributors, injectors, and pumps; replaces components such as fuel pumps, starters, carburetors, generators, regulators, universal joints, brake shoes, and drive sprockets; road tests vehicles; prepares and keeps maintenance records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans and organizes work schedules and shop practices; assigns duties; performs operational and administrative duties; instructs and supervises subordinate personnel in appropriate maintenance practices and procedures. *Skill Level 40:* Able to perform the duties required for 63C30, 63B30 (Wheel Vehicle Mechanic), or 63F30 (Recovery Specialist); supervises maintenance on track and wheel vehicles; supervises vehicle recovery operations and tire and tube activities.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in automotive, diesel, or truck mechanics. In the lower-division baccalaureate/associate degree category, 6 semester hours in automotive, diesel, or truck mechanics and additional credit on the basis of institutional evaluation. In an automotive, diesel, or truck mechanic apprentice training program, 500 clock hours of experience and 267 contact hours of related instruction (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in automotive, diesel, or truck mechanics. In the baccalaureate/associate degree category, a minimum of 9 semester hours in automotive, diesel, or truck mechanics and additional credit on the basis of institutional evaluation. In an automotive, diesel, or truck mechanic apprentice training program, 1,500 clock hours of experience and 267 contact hours of related instruction and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in automotive, truck, or diesel mechanics. In the lower-division baccalaureate/associate degree category, 9 semester hours in automotive, truck, or diesel mechanics, 2 in personnel supervision, and 1 in records administration, and additional credit in an automotive, diesel, or truck mechanics program on the basis of institutional evaluation for a minimum total of 12 semester hours. In an automotive, diesel, or truck mechanic apprentice training program, 4,000 clock hours of experience and 267 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in automotive, diesel, or truck mechanics. In the lower-division baccalaureate/associate degree category, 15 semester hours in automotive, diesel, or truck mechanics, 3 in personnel supervision, and 1 in records administration, and additional credit in automotive mechanics, diesel mechanics, and truck mechanics on the basis of institutional evaluation, for a minimum total of 19 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management, *only if the duty assignment was tire repair foreman or recovery sergeant.* In an automotive, diesel, or truck mechanic apprentice training program, 6,000 clock hours of experience and 267 contact hours of related instruction (12/75).

MOS–63F–001

RECOVERY SPECIALIST

63F10
63F20
63F30

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical

Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Operates and performs operator maintenance on all types of wreckers, recovery vehicles, and associated equipment and accessories. *Skill Level 10:* Performs recovery and evacuation operations for abandoned, damaged, disabled, or mired light or heavy wheel or track vehicles; prepares recovery vehicle equipment for use; maneuvers recovery vehicles, selecting the most desirable positions for wreckers, trailers, full tracked recovery vehicles or transporters; uses winches, cranes, booms, jacks, block and tackle gear; applies lines and rigs; performs operator maintenance on recovery vehicles. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance for Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans, organizes, and supervises recovery operations; assigns duties; conducts on-the-job training; requisitions spare parts, tools, and supplies; schedules and coordinates equipment for periodic maintenance.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in an automotive mechanics program. In a rigger apprentice training program, 1,000 clock hours of experience (12/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in an automotive mechanics program, 2 in personnel supervision, and 1 in records administration, and additional credit on the basis of institutional evaluation, for a minimum total of 11 semester hours. In a rigger apprentice training program, 1,000 clock hours of experience (12/75).

MOS–63G–001

FUEL AND ELECTRICAL SYSTEMS REPAIRMAN

63G10
63G20

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Removes, disassembles, and repairs fuel and electrical systems and components. *Skill Level 10:* Diagnoses and performs direct and general support maintenance on fuel and electrical systems of wheel and track vehicles and materiel handling equipment; tests, adjusts, and repairs fuel and electrical system components. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to lower grade personnel.

Recommendation, Skill Level 10

In the vocational certificate category, 9 semester hours in fuel and electrical systems. In the lower-division baccalaureate/associate degree category, 9 semester hours in fuel and electrical systems, and additional credit on the basis of institutional evaluation. In an automotive, truck, heavy-duty truck, or heavy-duty equipment mechanic apprentice training program, 500 clock hours of experience and 400 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in fuel and electrical systems. In the lower-division baccalaureate/associate degree category, 9 semester hours in fuel and electrical systems, and additional credit on the basis of institutional evaluation. In an automotive, truck, heavy-duty truck, or heavy-duty equipment mechanic apprentice training program, 1,500 clock hours of experience and 400 contact hours of related instruction, and additional clock hours of experience on the basis of employer or trade association performance examination (12/75).

MOS–63H–001

AUTOMOTIVE REPAIRMAN

63H20
63H30
63H40

Exhibit Dates: 10/73–8/75.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Automotive Maintenance).

Description

Summary: Disassembles, reassembles, and tests transmissions, engines, differentials, brakes, and other automotive components. *Skill Level 20:* Uses measuring and hand tools such as calipers, micrometers, wrenches, and torches; under supervision, repairs, adjusts, replaces, and overhauls engines, clutches, transmissions, differentials, steering assemblies, hydraulic cylinders, and brakes. *Skill Level 30:* Able to perform the duties required for Skill Level 20; troubleshoots electrical and mechanical failures; repairs, overhauls, and installs fuel systems and electrical components; applies information contained in technical and trade manuals; instructs and assists subordinate personnel. *Skill Level 40:* Able to perform the duties required for Skill Levels 20 or 30; supervises a minimum of six subordinates; plans and organizes work schedules; writes job tickets; prepares maintenance forms and records; requisitions parts, supplies, and equipment; keeps a file on technical publications; applies production and quality control procedures and standards.

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in auto mechanics. In the lower-division baccalaureate/associate degree category, 9 semester hours in auto mechanics and additional credit in auto mechanics on the basis of institutional evaluation. In an automotive, truck, heavy-duty truck, or equipment mechanic apprentice training program, 1,000 clock hours of experience and 144 contact hours of related instructions (2/75).

Recommendation, Skill Level 30

In the vocational certificate category, 15 semester hours in auto mechanics. In the lower-division baccalaureate/associate degree category, 15 semester hours in auto mechanics and additional credit in auto mechanics on the basis of institutional evaluation. In an automotive, truck, heavy-duty truck, or equipment mechanic apprentice training program, 6,000 clock hours of experience and 432 contact hours of related instruction. Journeyman status achieved through employer or trade association performance examination (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in auto mechanics and 3 in shop practices and procedures. In the lower-division baccalaureate/associate degree category, 15 semester hours in auto mechanics, 1 in records administration, and 2 in personnel supervision, for a total of 18 semester hours. In the upper-division baccalaureate category, credit in automotive technology on the basis of institutional evaluation. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as an automotive, truck, heavy-duty truck, or equipment mechanic (2/75).

MOS–63H–002

AUTOMOTIVE REPAIRMAN

63H10
63H20
63H30
63H40

Exhibit Dates: 9/75–2/77.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Disassembles, reassembles, and tests transmissions, engines, differentials, brakes, and other automotive components. *Skill Level 10:* Under supervision, repairs, adjusts, replaces, and overhauls engines, clutches, transmissions, differentials, steering assemblies, hydraulic cylinders, and brakes; uses measuring and hand tools such as calipers, micrometers, wrenches, and torches. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs maintenance on engine, powertrain, and chassis components of wheel and track vehicles and material-handling equipment, excluding the propulsion motor on electric material-handling equipment; provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises automotive maintenance and fuel and electrical system repair operations; performs complete technical inspection of fuel and electrical systems repairs and repair or overhaul of engine powertrain and chassis components; plans and organizes work schedules; assigns duties; instructs subordinate personnel in proper practices, procedures, and techniques; applies quality and production control procedures; uses and keeps a file of technical publications; requisitions spare parts, tools, and supplies. NOTE: May have progressed to 63H30 from 63H20 or 63G20 (Fuel and Electrical Systems Repairman). *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises repair of automotive and quartermaster equipment; supervises a minimum of 20 subordinate personnel. NOTE: May have progressed to 63H40 from 63H30 or 63J30 (Quartermaster Equipment Repairman).

Recommendation, Skill Level 10

In the vocational certificate category, 9 semester hours in auto mechanics and 1 in use and care of hand tools. In the lower-division baccalaureate/associate degree category, 9 semester hours in auto mechanics and additional credit in auto mechanics on the basis of institutional evaluation. In an automotive, truck, heavy-duty truck, or equipment mechanic apprentice training program, 500 clock hours of experience and 400 contact hours of related instruction (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in auto mechanics and 1 in use and care of hand tools. In the lower-division baccalaureate/associate degree category, 9 semester hours in auto mechanics, and additional credit in auto mechanics on the basis of institutional evaluation. In an automotive, truck, heavy-duty truck, or equipment mechanic apprentice training program, 1,500 clock hours of experience and 400 contact hours of related instruction (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, 15 semester hours in auto mechanics, 3 in shop practices and procedures, and 1 in use and care of hand tools, for a total of 19 semester hours. In the lower-division baccalaureate/associate degree category, 15 semester hours in auto mechanics, 2 in personnel supervision, and 1 in records administration, and additional credit in auto mechanics on the basis of institutional evaluation, for a minimum total of 18 semester hours. In the upper-division baccalaureate category, credit in management or administration on the basis of institutional evaluation. In an automotive, truck, heavy-duty truck, or equipment mechanic apprentice training program, 6,000 clock hours of experience and 432 contact hours of related instruction (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 15 semester hours in auto mechanics, 3 in shop practices and procedures, and 1 in use and care of hand tools, for a total of 19 semester hours. In the lower-division baccalaureate/associate degree category, 15 semester hours in auto mechanics, 2 in personnel supervision, and 1 in records administration, and additional credit in auto mechanics on the basis of institutional evaluation, for a minimum total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management, and additional credit in management, administration, and automotive technology on the basis of institutional evaluation, for a minimum total of 6 semester hours. Journeyman status (defined as 8,000 clock hours of experience and 576 contact hours of related instruction) as an automotive, truck, heavy-duty truck, or equipment mechanic (12/75).

MOS–63H–003

AUTOMOTIVE REPAIRMAN

63H10
63H20
63H30
63H40

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–63J–001

QUARTERMASTER EQUIPMENT REPAIRMAN

63J10
63J20
63J30

Exhibit Dates: 9/75–2/77.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Summary: Supervises or performs maintenance on quartermaster machinery and special purpose equipment. *Skill Level 10:* Disassembles, repairs, reassembles, adjusts, and tests various types of quartermaster machinery and equipment such as sewing machines, stoves, gasoline lanterns, laundry units, bath units, bakery units, and special purpose equipment; performs maintenance on electrical circuits contained in this machinery and equipment; uses supply and technical literature, regulations, and manufacturers' catalogs in performing maintenance and making repairs. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical assistance for Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assigns, schedules, and supervises personnel engaged in installing, repairing, and maintaining quartermaster machinery and equipment; performs technical inspections.

Recommendation, Skill Level 10

In the vocational certificate category, 1 semester hour in use and care of hand tools, 1 in basic electricity, 1 in use of testing equipment, and 1 in small appliance repair, for a total of 4 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in small appliance repair. In a sewing machine repairman apprentice training program, 100 clock hours of experience (12/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 10. In a sewing machine repairman apprentice training program 200 clock hours of experience (12/75).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 2 semester hours in small appliance repair and 3 for field experience in personnel management. In a sewing machine repairman apprentice training program, 300 clock hours of experience (12/75).

MOS–63J–002

QUARTERMASTER EQUIPMENT REPAIRMAN

63J10
63J20
63J30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–63Z–001

MECHANICAL MAINTENANCE SUPERVISOR

63Z50

Exhibit Dates: 9/75–Present.

Career Management Field: 63 (Mechanical Maintenance), *subfield* 633 (Machinery Maintenance).

Description

Supervises organizational, direct, and general support maintenance on all types of mechanical equipment; assists in making plans and establishing policies and procedures for maintenance units; plans facilities and workflow; assigns duties; instructs in maintenance work techniques; evaluates performance of lower grade personnel; interprets company policy and standard operating procedures; assists in accomplishing unit training. NOTE: May have progressed to 63Z50 from Skill Level 40 of any MOS in the mechanical maintenance career management field (63).

Recommendation

In the vocational certificate category, 3 semester hours in personnel supervision, 3 in records administration, and 3 in leadership, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in records administration, 3 in leadership, and 3 for field experience in management, and additional credit on the basis of institutional evaluation, for a minimum total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 6 for field experience in management, and additional credit on the basis of institutional evaluation, for a minimum total of 9 semester hours (12/75).

MOS–64C–001

MOTOR TRANSPORT OPERATOR

64C20
64C30
64C40
64C50

Exhibit Dates: 10/73–2/76.

Career Management Field: 65 (Transportation), *subfield* 652 (Motor Transport).

Description

Summary: Operates wheel vehicles to transport personnel and cargo. *Skill Level 20:* Operates single-unit wheel vehicles with a capacity of five tons or less in all conditions of light, weather, and terrain; knows safety rules and practices; insures proper loading of vehicle; performs simple vehicular maintenance; keeps records of operation and performance; may serve as chauffeur or dispatcher. *Skill Level 30:* Able to perform the duties required for Skill Level 20; operates vehicles with a capacity of over five tons such as tractor-trailers and tank trucks. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises motor pool activities; schedules, routes, and controls movements of motor transport equipment. *Skill Level 50:* Able to perform the duties required for Skill Level 40; evaluates motor transport operations; assists in planning, coordinating, and supervising all supporting activities; prepares studies, routine and special reports, and records on motor transport operations; supervises personnel and technical operations.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in motor vehicle operation (single-unit truck) (2/75).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in motor vehicle operation (tractor-trailer) (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in motor vehicle operation (all road vehicles). In the lower-division baccalaureate/associate degree category, 6 semester hours in motor transportation (management) and 3 in motor maintenance (management) (2/75).

Recommendation, Skill Level 50

In the vocational certificate category, 9 semester hours in motor vehicle operation (all road vehicles). In the lower-division baccalaureate/associate degree category, 9 semester hours in motor transportation (management), 6 in motor maintenance (mangement), and 6 for field experience in education (driver training), for a total of 21 semester hours (2/75).

MOS–64C–002

MOTOR TRANSPORT OPERATOR

64C10
64C20
64C30
64C40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 641 (Surface Operations).

Description

Summary: Operates wheel vehicles to transport personnel and cargo. *Skill Level 10:* Operates single-unit wheel vehicles with a capacity of five tons or less in all conditions of light, weather, and terrain; knows safety rules and practices; insures proper loading of vehicle; performs simple vehicular maintenance; keeps records of operation and performance; may serve as chauffeur or dispatcher; depending on the type of unit to which assigned, may also perform the same duties for tractors, semitrailors, tank transporters, and other vehicles with a capacity of more than five tons. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises small motor transport activity; participates in convoy operations and organization, including planning, the establishment of control measures, and the observance of civil laws and pertinent military regulations; reviews and prepares operations reports; determines the number of vehicles required for a given operation; schedules route and controls movements of motor transport equipment; may perform or direct driver testing functions. *Skill Level 40:* Performs the duties required for Skill Level 30 in the supervision of a large motor transport activity.

Recommendation, Skill Level 10

In the vocational certificate category, 3 se-

mester hours in motor vehicle operation (single-unit truck) and, *if the duty assignment was heavy vehicle driver (tractor-trailer)*, 3 additional semester hours in motor vehicle operation (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in motor vehicle operation (single-unit truck) and, *if the duty assignment was heavy vehicle driver (tractor-trailer)*, 4 additional semester hours in motor vehicle operation (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in motor vehicle operation (single-unit truck) and, *if the duty assignment was heavy vehicle driver (tractor-trailer)*, 4 additional semester hours in motor vehicle operation. In the lower-division baccalaureate/associate degree category, 6 semester hours in motor transportation management and 3 in motor maintenance management, for a minimum total of 9 semester hours, and *if the duty assignment was driver test sergeant*, 3 semester hours for an internship in education (driver training), for a maximum total of 12 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 8 semester hours in motor vehicle operation (all road vehicles). In the lower-division baccalaureate/associate degree category, 6 semester hours in motor transportation management, 3 in motor maintenance management, 3 in personnel supervision, 3 in human relations, and 3 for field experience in management, for a minimum total of 18 semester hours, and *if the duty assignment was driver test sergeant*, 3 semester hours for an internship in education (driver training), for a maximum total of 21 semester hours (5/76).

MOS–64Z–001

TRANSPORTATION SENIOR SERGEANT

64Z50

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 641 (Surface Operations).

Description

Supervises operation and control of movement of personnel and cargo by air, rail, motor transport, and water; prepares tactical plans and training material; evaluates transportation operations; assists in planning, coordinating, and supervising all supporting activities; prepares studies, routine and special reports, and records on transportation operations; supervises personnel and technical operations. NOTE: The job description for 64Z50 reflects recent changes and indicates proficiency in MOS 71N40 (Traffic Management Coordinator) 64C40 (Motor Transport Operator), and 57H40 (Terminal Operations Coordinator). However, personnel currently (May 1976) holding MOS 64Z50 may not possess expertise in all the MOS's. With the additional experience and training that is planned, personnel should be fully qualified in the near future.

Recommendation

In the vocational certificate category, 9 semester hours in transportation operations. In the lower-division baccalaureate/associate degree category, 9 semester hours in transportation operations, 3 in records administration, and 3 in report writing, for a total of 15 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, and 3 for field experience in education, for a total of 12 semester hours (5/76).

MOS–65B–001

LOCOMOTIVE REPAIRMAN

65B10

65B20

65B30

65B40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 643 (Railway Operations).

Description

Summary: Supervises or enforces maintenance on nonelectric sections of locomotives. *Skill Level 10:* Inspects locomotives to diagnose malfunctions; dismantles, inspects, overhauls, and repairs broken, worn, or malfunctioning parts; accompanies locomotive operator on test runs and observes functions of locomotives; cleans and lubricates components as required; performs technical inspections on locomotives and auxiliary equipment to insure proper maintenance has been performed; interprets technical drawings and sketches. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs initial and final inspections on locomotives scheduled for maintenance; supervises and instructs repairmen in methods and techniques of repairs; enforces safety practices; prepares technical reports on locomotives and estimates personnel, supplies, parts, and equipment necessary to restore locomotives, tanks, and tank cars to efficient operating condition; plans, organizes, and coordinates work activity of subordinates engaged in maintaining, inspecting, and repairing locomotives and auxiliary equipment. *Skill Level 40:* Able to perform duties of 65B30 or 65F30 (Locomotive Electrician); supervises or controls repairs of mechanical and electrical portions of locomotives.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in locomotive maintenance (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 8 semester hours in locomotive maintenance (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 9 semester hours in management and supervision of locomotive maintenance (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 9 semester hours in management and supervision of locomotive maintenance, 3 in personnel supervision, and 3 in industrial management, for a total of 15 semester hours (5/76).

MOS–65D–001

RAILWAY CAR REPAIRMAN

65D10

65D20

65D30

65D40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 643 (Railway Operations).

Description

Summary: Supervises or performs maintenance on railway passenger, freight, and hospital cars. *Skill Level 10:* Dismantles and reassembles major components and auxiliary equipment; examines wheels, axles, journals, journal bearings, and draft gear for structural and safety defects; inspects cars for defects which interfere with proper loading and makes necessary repairs; repairs handbrake mechanisms, gear ratchets, linkage, center sills, and body bolsters; straightens bent sections of bodies; paints and stencils railway cars; performs technical inspection of railway cars to insure proper maintenance; interprets technical blueprints and sketches; assists in salvage and rehabilitation of cars. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; inspects railway cars prior and subsequent to maintenance. *Skill Level 30:* Able to perform the duties required for 65D20 or 65E20 (Airbrake Repairman); plans, organizes, coordinates and supervises work activity of a railway car section team; instructs repairmen in proper maintenance techniques and safety procedures; calculates personnel and material requirements for specific repair work; maintains records and prepares detailed technical reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a large repair facility (normally, a minimum of 39 lower skill level personnel) involved in repairing railway cars and airbrake systems of locomotives and cars.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in practices and procedures of railroad car repair (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel supervision (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 1 in technical writing, for a total of 7 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 for field experience in management, and 1 in technical writing, for a total of 10 semester hours (5/76).

MOS–65E–001

AIRBRAKE REPAIRMAN

65E10

65E20

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 643 (Railway Operations).

Description

Summary: Inspects, services, and repairs airbrake systems of locomotives and cars. *Skill Level 10:* Inspects airbrake components and system for defects; dismantles, cleans, and lubricates components; removes and replaces defective parts; tests and adjusts components for maximum efficiency of airbrake system; makes appropriate entries in parts and log books; prepares written reports. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides technical guidance to lower skill level personnel.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in inspecting, servicing, and repairing airbrake systems (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 8 semester hours in inspecting, servicing, and repairing airbrake systems (5/76).

MOS–65F–001

LOCOMOTIVE ELECTRICIAN

65F10
65F20
65F30

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 643 (Railway Operations).

Description

Summary: Supervises or performs repairs on electrical portions of diesel-electric systems of diesel electric locomotives. *Skill Level 10:* Inspects, dismounts, dismantles, cleans, repairs, and replaces defective components of electrical systems of diesel-electric locomotives, including generators, traction motors, auxiliary motors, reversers, contactors, relays, and regulators; load-tests repaired electrical components; restores commutator surfaces, rebands armatures, and repairs armature bearings; calibrates electric measuring instruments; reads schematic wiring diagrams. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises medium-sized activity involved in repairing electrical portions of electrical systems of diesel-electric locomotives; interprets complex wiring diagrams; prepares shop layouts; develops plans for utilization of personnel, materials, and equipment; conducts on-the-job training; requisitions tools, parts, and supplies.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in repair of electrical systems (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 8 semester hours in repair of electrical systems (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 8 semester hours in repair of electrical systems. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in shop management, and 3 in human relations, for a total of 9 semester hours (5/76).

MOS–65G–001

RAILWAY SECTION REPAIRMAN

65G10
65G20
65G30
65G40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 643 (Railway Operations).

Description

Summary: Performs and/or supervises maintenance, repair and clean-up of railway tracks, roadbeds, switches, and other railway facilities. *Skill Level 10:* Performs inspection, repair, clean-up, and maintenance of railway right-of-way and adjoining structures including switches, signals, degree of elevation, track curvature, and tie spacing; controls the issuing of repair and maintenance equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; determines need for repair and construction equipment and arranges for movement to job site; conducts on-the-job training in minor repairs, emphasizing safety to both train and work repair crews; supervises limited size maintenance, repair, and clean-up crews. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises medium-sized crews (normally 29–38 subordinate personnel or 2 section gangs); adjusts work assignments to best reflect capabilities of subordinate personnel; prepares reports relating to the maintenance, repair, and clean-up of railway right-of-way facilities. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises the maintenance, repair, and clean-up activities of a large-scale railway facility, normally consisting of more than 39 subordinate personnel.

Recommendation, Skill Level 10

In the vocational certificate category, 5 semester hours in railroad operations (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 7 semester hours in railroad operations (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 9 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, and 6 for field experience in management, for a total of 12 semester hours (5/76).

MOS–65H–001

LOCOMOTIVE OPERATOR

65H10
65H20
65H30
65H40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 643 (Railway Operations).

Description

Summary: Operates steam, electric, and diesel-electric locomotives and related equipment. *Skill Level 10:* Operates steam, electric, and diesel-electric locomotives and related equipment; fires and sustains steam pressure by either hand or stoker firing of coal-burning locomotives; and assists in performing the duties required for Skill Level 20. *Skill Level 20:* Able to perform the duties required for Skill Level 10; interprets specific operating instructions; efficiently operates locomotives and trains, observing appropriate gauges and meters; lubricates moving parts of locomotive; interprets and executes operating instructions; inspects equipment for proper operating condition; interprets train orders; compiles performance and delay reports for each trip; submits locomotive inspection reports, noting needed corrective action for defects. *Skill Level 30:* Able to perform the duties required for Skill Level 20; reviews operation and inspection reports; investigates schedule delays, accidents, and unusual operating incidents and recommends corrective action; assigns specific duties to locomotive operators and other crewmen, and monitors performance of these personnel; provides on-the-job training; enforces safety procedures; coordinates maintenance of locomotives; prepares technical, personnel, and administrative reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises operation of steam, electric, and diesel-electric locomotives and related equipment.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in steam, electric, and diesel-electric mechanics, 3 in operation and maintenance of locomotive engines, and 3 in railway safety, for a total of 9 semester hours (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in operation and maintenance of locomotive engines, 3 in steam, electric, and diesel mechanics, and 3 in railway safety, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 in report writing, and 1 in safety, for a total of 10 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate associate degree category, 3 semester hours in human relations, 3 in personnel supervision, 3 for field experience in management, 3 in report writing, and 1 in safety, for a total of 13 semester hours (5/76).

MOS–65J–001

TRAINMAN

65J10
65J20
65J40

Exhibit Dates: 10/73–2/76.

Career Management Field: 65 (Transportation), *subfield* 654 (Railway).

Description

Summary: Serves as yardmaster, conductor, or brakeman in the make-up and movement of railway cars and trains. *Skill Level 10:* Assists in disassembly, cleaning, and reassembly of major components of locomotives and cars; moves tools and supplies to and from worksites; positions and braces heavy material or parts for repairmen; lubricates locomotives and cars; services storage batteries. *Skill Level 20:* Performs as brakeman in car coupling and uncoupling operations; lubricates cars and insures that they are properly loaded, braced, and lashed; prepares reports, lists, and records of yard and road railway operations. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises brakeman operations and serves as conductor and yardmaster in the movement and makeup of railway cars and trains; receives and prepares required train orders, forms, and records, conducts on-the-job training of subordinates.

Recommendation, Skill Level 10

Credit on the basis of institutional evaluation. NOTE: Skill Level 10 was not evaluated during the time period of this exhibit, because it was added to MOS 65J in 3/75, one month after Skill Levels 20 and 40 were evaluated.

Recommendation, Skill Level 20

In the vocational certificate category, 7 semester hours in railroad operation (brakeman) (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 13 semester hours in railroad operation (conductor and yardmaster). In the lower-division baccalaureate/associate degree category, 6 semester hours in management (2/75).

MOS–65J–002

TRAINMAN

65J10
65J20
65J30
65J40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 643 (Railway Operations).

Description

Summary: Serves as yardmaster, conductor, or brakeman in the make-up and movement of railway cars and trains. *Skill Level 10:* Performs as a brakeman; receives orders for switching and performs car coupling and uncoupling op-

erations; applies safety rules; gives and interprets railway signals for train control and operation; places placarded cars in trains and insures that cars are properly loaded and lashed for safe handling; prepares and interprets train orders; prepares reports and forms for yard and railway operations; inspects rolling stock to determine operating condition. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as a conductor; supervises the operation of a railroad train and coordinates train movements; reviews and interprets train orders and time tables; instructs and supervises enginemen and brakemen in connecting and disconnecting trains and cars and switching cars to sidings or spurs. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as an assistant yardmaster; supervises and trains personnel in railway yard operation, including the handling, classification, and switching of trains and cars; maintains record of daily movement of railway cars; assures adherence to railway safety procedures; reviews, consolidates, and prepares technical, personnel, and administrative reports covering railway yard activities. *Skill Level 40:* Supervises railway yard operations by performing the duties required for Skill Level 30 at a higher level, normally supervising two Skill Level 30 yardmasters.

Recommendation, Skill Level 10

In the vocational certificate category, 7 semester hours in the make-up and movement of railway cars and trains. (5/76).

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in the make-up and movement of railway cars and trains. In the lower-division baccalaureate/associate degree category, 1 semester hour in personnel supervision (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, 13 semester hours in the make-up and movement of railway cars and trains. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision and 3 in human relations (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 13 semester hours in the make-up and movement of railway cars and trains. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 6 for field experience in management, for a total of 12 semester hours (5/76).

MOS–65K–001

RAILWAY MOVEMENT COORDINATOR

65K10
65K20
65K30
65K40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 643 (Railway Operations).

Description

Summary: Supervises train dispatching or operates railway stations, railway signals and switches, and assists in control and coordination of train movements. *Skill Level 10:* Accounts for car and train movements by compiling records reflecting locations of all rolling stock; keeps records of arriving and departing trains; computes operational and statistical reports on traffic volume, demurrage, expediting, and train movements; requisitions cars, supervises loading, compiles and checks bills of lading (waybills) and seals cars; receives requisitions for empty cars and directs movement to loading areas; establishes liaison with other operating personnel and civilian carrier operating personnel to insure safe and prompt handling of freight. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises receipt and transmission of messages relating to train movements; reviews transit time; coordinates and arranges for train crews; establishes close liaison with representatives of civilian and military railroads; supervises on-the-job training. *Skill Level 40:* Able to perform the duties required for Skill Level 30; provides staff supervision to lower-grade personnel in railway operating activities.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in traffic and transportation or in physical distribution management (5/76).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in traffic and transportation or in physical distribution management (5/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in traffic and transportation or in physical distribution management and 1 in personnel supervision (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in traffic and transportation or in physical distribution management, 3 in personnel supervision, and 3 in human relations, for a total of 12 semester hours (5/76).

MOS–65Z–001

RAILWAY SENIOR SERGEANT

65Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 64 (Transportation), *subfield* 643 (Railway Operations).

Description

Supervises and coordinates maintenance-of-way and maintenance of equipment and railway operations, including the overall supervision of 65B40 (Locomotive Repairman), 65D40 (Railway Car Repairman), 65G40 (Railway Section Repairman), 65H40 (Locomotive Operator), 65J40 (Trainman), and 65K40 (Railway Movement Coordinator) personnel; advises superiors on all matters relating to operations, maintenance, and repair; monitors and controls railway passenger and freight traffic; prepares operational reports, training material, and programs.

Recommendation

In the upper-division baccalaureate category, 3 semester hours in records administration, 3 in personnel management, 3 in human relations, 3 for field experience in management, 3 in maintenance management, 3 in introduction to management, and 6 in transportation management, for a total of 24 semester hours (5/76).

MOS–67B–001

O–1/U–6 AIRPLANE REPAIRMAN

67B20
67B40

Exhibit Dates: 9/75–2/77. (Effective 3/77, MOS 67B was discontinued and its functions were incorporated into MOS 67G, Airplane Repairer.)

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Supervises or performs maintenance, excluding any repair of system components, on O–1 and U–6 airplanes; supervises or serves as crewman in target aircraft units. *Skill Level 20:* Readies, assists in launching, and conducts scheduled and special inspections of target aircraft; diagnoses operational defects, services systems, and adjusts or replaces parts or assemblies as authorized by maintenance doctrine and maintenance allocation charts; tightens, adjusts, removes, and replaces components, assemblies and subassemblies with common and special tools and precision measuring instruments; removes and replaces defective engine carburetors, fuselage components, seat belts, shoulder harnesses, seats, upholstery, propeller accessories, hydraulic system components, gages, and instruments; adjusts and replaces electrical system components; installs spark plugs, engines, cowlings, horizontal and vertical stabilizers, battery, wing, parachute, and parachute release mechanism on target aircraft for launching; maintains target aircraft engines, airframes, and wings; performs preflight checkout of target aircraft. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises personnel involved in the launch, remote control, and recovery of target aircraft; plans work flow; applies production control, quality control, and other maintenance management principles and procedures to shop operations; keeps records on aircraft maintenance operations; estimates man-hour and parts requirements to repair airplanes and associated equipment; performs duties of airfield service supervisor; conducts on-the-job training; prepares, reviews, and consolidates technical and administrative reports pertaining to target aircraft equipment maintenance.

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in basic airframe maintenance. In the lower-division baccalaureate/associate degree category, 4 semester hours in aviation maintenance technology or aviation maintenance management (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in basic airframe maintenance, 3 in shop procedures and practices, and 1 in technical writing, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in aviation maintenance management or airframe systems management, 3 in shop procedures and practices, 3 in personnel supervision, 1 in technical writing, and 1 in records administration, for a total of 14 semester hours. In the upper-division baccalaureate category, *if the duty assignment was maintenance supervisor section chief, section sergeant, or maintenance supervisor platoon sergeant,* 6 semester hours in aviation maintenance management, or 3 semester hours in introduction to management and 3 for field experience in management, for a total of 6 semester hours (11/75).

MOS–67C–001

U–1A AIRPLANE REPAIRMAN

67C20
67C40

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 67C was discontinued and its functions were incorporated into MOS 67G, Airplane Repairer.)

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Supervises or performs maintenance, excluding any repair of system components, on U–1A airplanes. *Skill Level 20:* Performs maintenance on airplanes, including inspecting, checking, troubleshooting, and repairing malfunctions in the airframe, powerplant, and their associated systems; uses common and special tools and precision measuring instruments; interprets wiring and schematic diagrams, complex technical instructions, plan, and blueprints; loads, lashes, and unloads cargo. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises organi-

zational, direct, and general support maintenance activities and applies production control, quality control, and other maintenance management principles and procedures to shop operations; evaluates damage and estimates man-hour and parts requirements to repair airplanes and associated equipment; instructs lower skill level personnel in safety principles and procedures; prepares forms, records, and reports on aircraft maintenance operations.

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in basic airframe maintenance. In the lower-division baccalaureate/associate degree category, 4 semester hours in aviation maintenance technology or aviation maintenance management (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in basic airframe maintenance and 3 in shop practices and procedures. In the lower-division baccalaureate/associate degree category, 6 semester hours in aviation maintenance management or airframe systems management, 3 in shop practices and procedures, 3 in personnel supervision, and 1 in records administration, for a total of 13 semester hours. In the upper-division baccalaureate category, *if the duty assignment was either maintenance supervisor section chief or maintenance supervisor platoon sergeant,* 6 semester hours in aviation maintenance management, or 3 semester hours in introduction to management and 3 for field experience in management, for a total of 6 semester hours (11/75).

MOS–67F–001

AIRPLANE TECHNICAL INSPECTOR

67F20
67F40

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 67F was discontinued and its functions were incorporated into MOS 67W, Aircraft Quality Control Supervisor.)

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Supervises or performs technical inspections on fixed-wing airplanes. *Skill Level 20:* Determines maintenance required and ensures that maintenance has been properly performed in accordance with prescribed standards; conducts operational checks and troubleshoots aircraft systems; advises repairmen on proper maintenance standards and procedures; maintains records and technical library; interprets technical publications and solves problems arising in aircraft maintenance and modification; applies quality control techniques. NOTE: Must be able to perform the duties of Skill Level 20 of any fixed-wing aircraft maintenance MOS. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is the principal non-commissioned officer in an aviation maintenance unit; applies quality control techniques and procedures to maintenance operations; plans, directs, schedules, and supervises aircraft inspection activities; instructs and advises personnel in inspection techniques and quality control procedures; evaluates damaged aircraft and estimates man-hour, personnel, and equipment requirements to repair fixed-wing aircraft.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance and 6 in technical electives. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management and 6 in technical electives (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 20 semester hours in aircraft maintenance, 6 in technical electives, and 5 in quality control, for a total of 31 semester hours. In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 6 in technical electives, 5 in quality control, and 3 in personnel management, for a total of 34 semester hours. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management, 6 in technical electives, and 3 in personnel management, for a total of 15 semester hours (11/75).

MOS–67G–001

U–8/U–21 AIRPLANE REPAIRMAN

67G20
67G40

Exhibit Dates: 10/73–2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Performs line and shop maintenance, excluding any repair of system components, on U–8 and U–21 airplanes. *Skill Level 20:* Performs maintenance on aircraft systems, ground support equipment, landing gear, power plant (reciprocating and turboprop) and related systems, hydraulic and related systems, propellers, flight controls, instruments, electrical systems, and accessories. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance; plans work flow; applies production control, quality control, and other maintenance management principles and procedures to line and shop operations; prepares records and reports on aircraft maintenance operations; utilizes and enforces safety principles and procedures.

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in basic airframe maintenance. In the lower-division baccalaureate/associate degree category, 4 semester hours in aviation maintenance technology or in aviation maintenance management (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 4 semester hours in basic airframe maintenance. In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, 4 semester hours in aviation maintenance management or in airframe systems management (2/75).

MOS–67G–002

AIRPLANE REPAIRER

67G10
67G20
67G30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–67H–001

OV–1 AIRPLANE REPAIRMAN

67H20
67H40

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 67H was discontinued and its functions were incorporated into MOS 67G, Airplane Repairer.)

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Performs or supervises maintenance, excluding any teardown repair of system components, on OV–1 airplanes. *Skill Level 20:* Performs maintenance on airplanes, including inspecting, checking, troubleshooting, and repairing malfunctions of components or units in the airframe, powerplant, and their associated systems; uses hand and power tools, special tools, precision measuring instruments, and diagnostic test equipment; interprets wiring and schematic diagrams, complex technical instructions, plans, and blueprints. *Skill Level 40:* Able to perform the duties required for Skill Level 20; plans workflow; evaluates damage and estimates man-hour and parts requirements to repair OV–1 airplanes and associated equipment; applies production control, quality control, and other maintenance management principles and procedures to shop operations; prepares forms, records, and reports on aircraft maintenance operations; provides instruction in safety principles, procedures, and techniques.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in basic airframe maintenance or basic airplane maintenance. In the lower-division baccalaureate/associate degree category, 6 semester hours in aviation maintenance technology or aviation maintenance management (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in basic airframe maintenance or basic airplane maintenance, 3 in shop practices and procedures, and 1 in records administration, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in aviation maintenance management or airframe systems management, 3 in shop practices and procedures, 3 in personnel supervision, and 1 in records administration, for a total of 13 semester hours. In the upper-division baccalaureate category, *if the duty assignment was either maintenance supervisor section sergeant or maintenance supervisor platoon sergeant,* 6 semester hours in aviation maintenance management, or 3 semester hours in introduction to management and 3 for field experience in management, for a total of 6 semester hours (11/75).

MOS–67N–001

UH–1 HELICOPTER REPAIRMAN

67N20
67N40

Exhibit Dates: 10/73–2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Supervises or performs maintenance on UH–1 helicopters. *Skill Level 20:* Inspects, replaces, and repairs parts of the UH–1 helicopter; conducts schedules and special inspections; troubleshoots and diagnoses all systems to detect malfunctions and isolate defective components; uses common and special tools and precision measuring instruments. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor; applies maintenance management principles and procedures to shop operations; prepares forms, records, and reports on aircraft maintenance operations; supervises a minimum of six subordinates; employs shop safety principles and procedures; evaluates damage and estimates repair requirements; does more complicated repair work; performs duties of airfield service supervisor.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in basic helicopter maintenance (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in basic helicopter maintenance and 3 in shop practices and procedures. In the lower-division baccalaureate/associate degree category, 9 semester hours in basic helicopter maintenance, 1 in records administration, and 2

'n personnel supervision, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in management principles or personnel administration (2/75).

MOS–67N–002

UTILITY HELICOPTER REPAIRER

67N10
67N20
67N30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–67U–001

CH–47 HELICOPTER REPAIRMAN

67U20
67U40

Exhibit Dates: 10/73–2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Performs or supervises helicopter maintenance, excluding any teardown repair of system components, on CH–47 helicopters. *Skill Level 20:* Performs maintenance on helicopters, including inspecting, checking, troubleshooting, and repairing malfunctions of components or units in the airframe, powerplant, and their associated systems; uses hand and power tools, special tools, precision measuring instruments, and diagnostic test equipment; interprets wiring and schematic diagrams, complex technical instructions, plans, and blueprints. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance activities, applies production control, quality control, and other maintenance management principles and procedures to shop operations; evaluates damage and estimates man-hour and parts requirements to repair CH–47 helicopters and associated equipment; prepares forms, records, and reports on aircraft maintenance operations.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in basic helicopter maintenance, 3 in shop practices and procedures, and 1 in records administration, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in basic helicopter maintenance, 3 in shop practices and procedures, 3 in personnel supervision, and 1 in records administration, for a total of 16 semester hours. In the upper-division baccalaureate category, *if the duty assignment was either maintenance supervisor section chief or maintenance supervisor platoon sergeant*, 6 semester hours in aviation maintenance management, or 3 semester hours in introduction to management and 3 for field experience in management, for a total of 6 semester hours (11/75).

MOS–67U–002

MEDIUM HELICOPTER REPAIRER

67U10
67U20
67U30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–67V–001

OH–6/OH–58 HELICOPTER REPAIRMAN

67V20
67V40

Exhibit Dates: 3/74–2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Performs or supervises maintenance, excluding any teardown repair of system components, on OH–6/OH–58 helicopters. *Skill Level 20:* Performs maintenance on helicopters, including inspecting, checking, troubleshooting, and repairing malfunctions of components or units in the airframe, powerplant, and their associated systems; interprets wiring and schematic diagrams, complex technical instructions, plans, and blueprints; loads, lashes, and unloads cargo. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance activities and applies production control, quality control, and other maintenance management principles and procedures to shop operations; prepares forms, records, and reports on aircraft maintenance operations.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in basic helicopter maintenance (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in basic helicopter maintenance, 3 in shop practices and procedures, and 1 in records administration, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in basic helicopter maintenance, 3 in shop practices and procedures, 3 in personnel supervision, and 1 in records administration, for a total of 16 semester hours. In the upper-division baccalaureate category, *if the duty assignment was maintenance supervisor platoon sergeant*, 6 semester hours in aviation management, or 3 semester hours in introduction to management and 3 for field experience in management, for a total of 6 hours (11/75).

MOS–67V–002

OBSERVATION/SCOUT HELICOPTER REPAIRER

67V10
67V20
67V30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–67W–001

HELICOPTER TECHNICAL INSPECTOR

67W20
67W40

Exhibit Dates: 10/73–2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Supervises or performs technical inspections on rotary-wing aircraft and life support equipment. *Skill Level 20:* Performs technical inspections on rotary-wing aircraft to determine maintenance requirements and insure maintenance has been properly performed in accordance with prescribed standards; conducts operational checks and troubleshoots helicopter systems; advises repairmen on proper maintenance standards and procedures; maintains records and technical library; interprets technical publications and resolves problems arising in helicopter maintenance and modification; applies quality control techniques. NOTE: Required to have attained Skill Level 20 in at least one rotary-wing aircraft maintenance MOS (67N, U, V, X, or Y). *Skill Level 40:* Able to perform the duties required for Skill Level 20; acts as the principal non-commissioned officer in an aviation maintenance battalion, group, or higher headquarters for helicopter inspection; supervises maintenance personnel; plans, directs, and supervises aircraft inspection activities; instructs and advises personnel in inspection techniques and quality control procedures; evaluates damaged aircraft and estimates manhour, personnel, and equipment requirements to repair helicopters.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category 20 semester hours in aircraft maintenance and 6 in technical electives. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management and 6 in technical electives (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 20 semester hours in aircraft maintenance, 6 in technical electives, and 5 in quality control, for a total of 31 semester hours. In the lower-division baccalaureate/associate degree category, 20 semester hours in aircraft maintenance, 6 in technical electives, 5 in quality control, and 3 in personnel management, for a total of 34 semester hours. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management, 6 in technical electives, and 3 in personnel management, for a total of 15 semester hours (2/75).

MOS–67W–002

AIRCRAFT QUALITY CONTROL SUPERVISOR

67W30
67W40

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–67X–001

CH–54 HELICOPTER REPAIRMAN

67X20
67X40

Exhibit Dates: 10/73–2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Performs or supervises helicopter maintenance, excluding any teardown repair of system components, on CH–54 helicopters. *Skill Level 20:* Performs maintenance on helicopters, including inspecting, checking, troubleshooting, and repairing malfunctions of components or units in the airframe, powerplant, and their associated systems; interprets wiring and schematic diagrams, complex technical instructions, plans, and blueprints; uses hand and power tools, precision measuring instruments, and diagnostic test equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance activities; applies production control, quality control, and other maintenance management principles and procedures to shop operations; prepares forms, records, and reports on aircraft maintenance operations; evaluates damage and estimates man-hour and parts requirements to repair CH–54 helicopters and associated equipment; instructs in safety principles, procedures, and techniques.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in basic helicopter maintenance (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in basic helicopter maintenance, 3 in shop practices and procedures, and 1 in records administration, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in basic helicopter maintenance, 3 in shop practices in procedures, 3 in personnel supervision and 1 in records administration, for a total of 16 semester hours. In the upper-division baccalaureate category, *if the duty assignment was either maintenance supervisor section chief or maintenance supervisor platoon sergeant*, 6 semester hours in aviation maintenance management, or 3 semester hours in introduction to management and 3 for field experience in management, for a total of 6 semester hours (11/75).

MOS–67X–002

HEAVY LIFT HELICOPTER REPAIRER

67X10
67X20
67X30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–67Y–001

AH–1G HELICOPTER REPAIRMAN

67Y20
67Y40

Exhibit Dates: 10/73–2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Summary: Performs or supervises maintenance, excluding any teardown repair of system components, on AH–1G helicopters. *Skill Level 20:* Performs maintenance on helicopters, including inspecting, checking, troubleshooting, and repairing malfunctions of components or units in the airframe, powerplant, and associated systems; interprets wiring and schematic diagrams, complex technical instructions, plans, and blueprints; performs duties of crew chief. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises maintenance activities and applies production control, quality control, and other maintenance management principles and procedures to shop operations; prepares forms, records, and reports on aircraft maintenance operations; evaluates damage and estimates man-hour and parts requirements to repair AH–1G helicopters and associated equipment.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in basic helicopter maintenance (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in basic helicopter maintenance, 3 in shop practices and procedures, and 1 in records administration, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in basic helicopter maintenance, 3 in shop practices and procedures, 2 in personnel supervision, and 1 in records administration for a total of 15 semester hours. In the upper-division baccalaureate category, *if the duty assignment was either maintenance supervisor section chief or maintenance supervisor platoon sergeant*, 6 semester hours in aviation maintenance management, or 3 semester hours in introduction to management and 3 for field experience in management, for a total of 6 semester hours (11/75).

MOS–67Y–002

ATTACK HELICOPTER REPAIRER

67Y10
67Y20
67Y30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–67Z–001

AIRCRAFT MAINTENANCE SENIOR SERGEANT

67Z50

Exhibit Dates: 10/73–2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 671 (Aircraft Maintenance).

Description

Supervises fixed-wing aircraft and/or helicopter maintenance on any operational level with varying fleet sizes; plans, coordinates, and controls maintenance activities on a supervisory or management level in addition to participating in technical problem solving; when assigned to a unit in which no technical participation is involved, plans, coordinates, and controls personnel activities of varying organizational groups. NOTE: Must be able to perform the duties of Skill Level 40 of any MOS in the aviation maintenance career management field (67).

Recommendation

In the vocational certificate category, 20 semester hours in airframe maintenance (helicopter and fixed-wing), 20 in powerplant maintenance (helicopter and fixed-wing), and 20 in systems maintenance (helicopter and fixed-wing), for a total of 60 semester hours. In the lower-division baccalaureate/associate degree category, 15 semester hours in airframe maintenance (helicopter and fixed-wing), 15 in powerplant maintenance (helicopter and fixed-wing), 15 in systems maintenance (helicopter and fixed-wing), 9 in technical electives, 3 in industrial organization, and 3 in personnel supervision, for a total of 60 semester hours. In the upper-division baccalaureate category, 3 semester hours in airframe maintenance (helicopter and fixed-wing), 3 in powerplant maintenance (helicopter and fixed-wing), 3 in systems maintenance (helicopter and fixed-wing), 3 in technical electives, 3 in production management, and 9 in aviation maintenance management or 3 in introduction to management and 6 for field experience in management, for a total of 24 semester hours (11/75).

MOS–67Z–002

AIRCRAFT MAINTENANCE SENIOR SERGEANT

67Z40
67Z50

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–68B–001

AIRCRAFT TURBINE ENGINE REPAIRMAN

68B20
68B30
68B40

Exhibit Dates: 10/73–2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Components Repair).

Description

Summary: Maintains aircraft turbine (jet) engines and components. *Skill Level 20:* Diagnoses and corrects single turbine engine malfunctions; disassembles engines and components, examines parts and components for wear or damage, determines the type and extent of repairs required, and reassembles engines and components; adjusts engines to operate at peak efficiency; uses and interprets technical publications; uses diagnostic equipment; preserves and stores turbine engine systems. *Skill Level 30:* Able to perform the duties required for Skill Level 20; reinstalls and rigs turbine engines on multiple turbine engine aircraft; performs modifications on multiple turbine engines. *Skill Level 40:* Able to perform the duties required for Skill Level 30; plans the utilization and work flow of resources and facilities; applies production control, quality control, and other maintenance management principles and procedures; prepares records and technical reports; instructs personnel in engine maintenance and safety procedures; supervises the final adjustment of aircraft turbine engines.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 15 semester hours in aircraft engine (turbine) maintenance and 6 in technical electives. In the upper-division baccalaureate category, credit on the basis of institutional evaluation (2/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 16 semester hours in aircraft engine (turbine) maintenance and 6 in technical electives. In the upper-division baccalaureate category, credit on the basis of institutional evaluation (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 16 semester hours in aircraft engine (turbine) maintenance, 6 in technical electives, and 3 in maintenance management, for a total of 25 semester hours. In the upper-division baccalaureate category, credit on the basis of institutional evaluation (2/75).

MOS–68B–002

AIRCRAFT POWERPLANT REPAIRER

68B10
68B20
68B30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–68D–001

AIRCRAFT POWERTRAIN REPAIRMAN

68D20
68D40

Exhibit Dates: 10/73–2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Components Repair).

Description

Summary: Supervises or performs maintenance on aircraft powertrains and components. *Skill Level 20:* Diagnoses and locates malfunctions; removes, disassembles, repairs, and reinstalls powertrain components; insures proper clearance and alignment of parts utilizing shimming and precision measuring equipment; interprets technical literature, blueprints, and schematic diagrams; completes forms and maintains records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises up to 20 or more persons; plans work flow; applies production control, quality control, and other maintenance management principles and procedures to shop operations; instructs personnel in aircraft powertrain maintenance and safety techniques; supervises final alignment and adjustment of aircraft powertrain components.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in helicopter component maintenance and 3 in technical electives (11/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in helicopter component maintenance, 6 in technical electives, and 3 in maintenance management, for a total of 21 semester hours. In the upper-division baccalaureate category, 6 semester hours in helicopter component maintenance, 9 in technical electives, 3 in introduction to management, and 3 for field experience in management, for a total of 21 semester hours (11/75).

MOS–68D–002

AIRCRAFT POWERTRAIN REPAIRER

68D10
68D20
68D30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–68E–001

AIRCRAFT ROTOR AND PROPELLER REPAIRMAN

68E20
68E30
68E40

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 68E was discontinued and its duties were incorporated into MOS 68B, Aircraft Powerplant Repairer; MOS 68D, Aircraft Powertrain Repairer; and MOS 68G, Aircraft Structural Repairer.)

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Components Repair).

Description

Summary: Supervises or performs maintenance on helicopter rotor blades, airplane propeller systems, and allied equipment. *Skill Level 20:* Performs maintenance on helicopter rotor blade assemblies and components; applies metal working and bonding techniques; balances and aligns main and tail rotor; applies hydraulic and electrical fundamentals in the repair, modification, and lubrication of propellers, rotor blades, assemblies and components; isolates malfunctions with special test equipment; utilizes non-destructive and precision test equipment; interprets technical literature, blueprints, and schematic diagrams; preserves and stores rotor blades and components; prepares forms, records, and reports; inspects and tests repaired units. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs direct and general support maintenance on fixed and constant speed propeller assemblies and components. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises direct and general support maintenance on helicopter rotor blades, airplane propeller systems and allied equipment; plans workflow in terms of resources and facilities; applies production control, quality control, and other maintenance management principles and procedures to shop operations; instructs personnel in rotor and propeller systems maintenance and safety techniques; supervises final alignment/adjustment of rotor and propeller systems.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in rotary wing and propeller maintenance and 3 in technical electives (11/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in rotary wing and propeller maintenance and 4 in technical electives (11/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in rotary wing and propeller maintenance, 6 in technical electives, and 3 in maintenance management, for a total of 21 semester hours. In the upper-division baccalaureate category, 6 semester hours in rotary wing and propeller maintenance, 9 in technical electives, 3 in introduction to management, and 3 for field experience in management, for a total of 21 semester hours (11/75).

MOS–68F–001

AIRCRAFT ELECTRICIAN

68F20
68F30
68F40

Exhibit Dates: 10/74–2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Components Repair).

Description

Summary: Supervises or performs maintenance on aircraft electrical/electronic systems and aircraft crew station instruments. *Skill Level 20:* Removes, disassembles, inspects, repairs, assembles, and reinstalls electrical/electronic elements of assemblies and components; applies troubleshooting techniques and diagnoses malfunctions in solid state and transistorized systems; repairs, replaces, splices, and solders electrical/electronic components; interprets technical literature, blueprints, and wiring schematic diagrams; prepares aircraft maintenance forms, records, and reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; applies principles of electricity, electronics, gyroscopic motion, pneumatics, and hydraulics applicable to the repair of aircraft instruments; performs technical inspections to insure that completed repairs meet prescribed specifications; uses forms and records designed for quality control. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises up to 20 or more persons; plans work flow; orients and instructs personnel and conducts on-the-job training programs in aircraft electrical/electronic and instrument system maintenance, supply, and safety techniques.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in aircraft electrical system maintenance and 3 in technical electives (11/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in aircraft electrical system maintenance and 4 in technical electives (11/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in aircraft electrical system maintenance, 6 in technical electives, and 3 in maintenance management, for a total of 21 semester hours. In the upper-division baccalaureate category, 6 semester hours in aircraft electrical system maintenance, 9 in technical electives, 3 in introduction to management, and 3 for field experience in management, for a total of 21 semester hours (11/75).

MOS–68F–002

AIRCRAFT ELECTRICIAN

68F10
68F20
68F30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–68G–001

AIRFRAME REPAIRMAN

68G20
68G30
68G40

Exhibit Dates: 10/73–2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Components Repair).

Description

Summary: Supervises or performs line and shop maintenance; is proficient in repairing aircraft structures, reading blueprints and drawings, forming metals, welding, and painting. *Skill Level 20:* Makes airframe structural repairs by fabrication of new parts, by using approved fasteners, rivets, and special purpose bolts, and by welding; prepares airframe surfaces for painting. *Skill Level 30:* Able to perform the duties required for Skill Level 20; as a senior repairman, inspects airframes and components before, during, and after repair of modification to insure that prescribed specifications are met; does the more complicated repair work. *Skill Level 40:* Able to perform the duties required for Skill Level 30; as a first-line supervisor, oversees the repair of airframe structures; completes maintenance forms and records; plans work loads and work flow; assures quality and production control; instructs personnel in airframe maintenance and in safety regulations and techniques; applies management principles and procedures to shop operations.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in aviation maintenance technology or airframe structures. In the lower-division baccalaureate/associate degree category, 6 semester hours in aviation maintenance technology or aviation maintenance management. In the upper-division baccalaureate category, 6 semester hours in aviation maintenance management or aviation maintenance engineering technology (2/75).

Recommendation, Skill Level 30

In the vocational certificate category, 9 semester hours in aviation maintenance technology or airframe structures. In the lower-division baccalaureate/associate degree category, 9 semester hours in aviation maintenance technology or aviation maintenance management. In the upper-division baccalaureate category, 9 semester hours in aviation maintenance management or aviation maintenance engineering technology (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in aviation maintenance technology or airframe structures and 3 in shop practices and procedures. In the lower-division baccalaureate/associate degree category, 9 semester hours in aviation maintenance technology or aviation maintenance management and 3 in personnel supervision. In the upper-division baccalaureate category, 9 semester hours in aviation maintenance management or aviation maintenance engineering technology and 3 in personnel administration (2/75).

MOS–68G–002

AIRCRAFT STRUCTURAL REPAIRER

68G10
68G20
68G30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–68H–001

AIRCRAFT HYDRAULICS REPAIRMAN

68H20
68H40

Exhibit Dates: 10/73–2/77.

Career Management Field: 67 (Aviation Maintenance), *subfield* 672 (Aircraft Components Repair).

Description

Summary: Supervises or performs maintenance on aircraft hydraulic and pneumatic systems and components. *Skill Level 20:* Diagnoses and corrects hydraulic/pneumatic system and component malfunctions; examines parts and components; resurfaces valves and valve seats; hones, and polishes cylinders; replaces bushings, bearings, and sleeves on equipment; employs precision measuring instruments and gages; tests component functions with specialized liquid, gas, air, and vacuum test equipment; performs modifications; interprets technical literature and schematic diagrams; prepares aircraft maintenance forms, records, and reports. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises up to 20 or more persons; plans work flow; applies production control, quality control, and other maintenance management principles and procedures to shop operations; instructs personnel in aircraft hydraulic/pneumatic system and components maintenance and safety techniques; supervises final alignment and adjustment of aircraft hydraulic/pneumatic systems and components onto airframe.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in aircraft hydraulic system maintenance and 3 in technical electives (11/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in aircraft hydraulic system maintenance, 6 in technical electives, and 3 in maintenance management, for a total of 21 semester hours. In the upper-division baccalaureate category, 6 semester hours in aircraft hydraulic system maintenance, 9 in technical electives, 3 in introduction to management, and 3 for field experience in management, for a total of 21 semester hours (11/75)

MOS–68H–002

AIRCRAFT PNEUDRAULICS REPAIRER

68H10
68H20
68H30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–68J–001

HELICOPTER MISSILE SYSTEMS REPAIRER

68J10
68J20
68J30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–68K–001

AIRCRAFT COMPONENTS REPAIR SUPERVISOR

68K40

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–68M–001

HELICOPTER WEAPON SYSTEMS REPAIRER

68M10
68M20
68M30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–71B–001

CLERK-TYPIST

71B10
71B20
71B30

Exhibit Dates: 10/73–8/77. (Effective 9/77, MOS 71B was discontinued and its functions were incorporated into MOS 71G, Medical Records Specialist, MOS 71L, Administrative Specialist, MOS 73C, Finance Specialist, and MOS 73D, Accounting Specialist.)

Career Management Field: 71 (Administration), *subfield* 711 (General Administration).

Description

Summary: Performs general clerical, typing, and related duties. *Skill level 10:* Prepares letters and other office communications; handles mail, uses the telephone, and performs other office administrative functions; uses and maintains office machines and manages records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; types at a level comparable to that required upon completion of a beginning typing course. *Skill Level 30:* Able to perform the duties required for Skill Level 20; types at a level comparable to that required upon completion of an intermediate typing course.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in office practices (12/74).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in office practices and 3 in typing (12/74).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in office practices and 6 in typing (12/74).

MOS–71C–001

STENOGRAPHER

71C20
71C30

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 711 (General Administration).

Description

Summary: Takes and transcribes dictation of correspondence, telephone conversations, meetings, and other information for typewritten records; prepares duplicating stencils and masters and operates stencil and fluid duplicators; acts as receptionist; schedules appointments; prepares correspondence, forms, memoranda, orders, circulars, and bulletins; maintains records and files; processes incoming and outgoing mail; performs other related clerical and administrative duties. *Skill Level 20:* Takes dictation at 90 to 120 words per minute and types at 45 or more words per minute. NOTE: May have progressed to 71C20 from 71B30 (Clerk-Typist). *Skill Level 30:* Takes dictation at 120 or more words per minute and types at 55 or more words per minute.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in dictation and transcription, 4 in typing, 2 in business communications, 2 in filing and records management, 2 in clerical record keeping, 2 for field experience in office practice, 1 in business machines (duplicating), and 1 in office practice, for a total of 18 semester hours (11/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in dictation and transcription, 6 in typing, 2 in business communications, 2 in filing and records management, 2 in clerical record keeping, 2 for field experience in office practice, 1 in business machines (duplicating), and 1 in office practice, for a total of 22 semester hours (11/75).

MOS–71C–002

STENOGRAPHER

71C10
71C20
71C30

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–71D–001

LEGAL CLERK

71D20
71D50

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 714 (Legal).

Description

Summary: Supervises or assists in the preparation and processing of court martial records, investigations, and reclassification board proceedings; may act independently in the field as a legal paraprofessional; prepares miscellaneous legal documents, both civil and military; supervises or maintains an office and law library for the law officer. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), or 71S (Attaché specialist). *Skill Level 20:* Performs primarily under the direct supervision of a chief or senior legal clerk. *Skill Level 50:* Supervises the administrative functions of a legal office.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office practices, 3 in English composition, 3 in business communications or technical writing, 3 in business law, and 3 in military legal practices and procedures, for a total of 18 semester hours; additional credit in the lower-division baccalaureate/associate degree category in office management on the basis of institutional evaluation. In the upper-division baccalaureate category, credit in office management on the basis of institutional evaluation (11/75).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in

office prctices, 3 in English composition, 3 in business communications or technical writing, 3 in business law, 3 in military legal practices and procedures, 3 in personnel management, and 3 in office management, for a total of 24 semester hours. In the upper-division baccalaureate category, 3 in personnel management, 3 in office management and 3 for field experience in legal office management for a total of 9 semester hours (11/75).

MOS–71D–002

LEGAL CLERK

71D10
71D20
71D30
71D40
71D50

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–71E–001

COURT REPORTER

71E20

Exhibit Dates: 10/73–2/76.

Career Management Field: 71 (Administration), *subfield* 714 (Legal).

Description

Takes notes of activities and statements in legal proceedings and prepares them for inclusion in official legal documents; able to perform the duties required for 71B30 (Clerk-Typist); records testimony at 175 words per minute; transcribe the testimony; maintains the records of military legal proceedings.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in dictation and transcription, 3 in office procedures, 3 in technical writing, and, *if the duty assignment was assistant court reporter*, 3 in typing, for a total of 18 semester hours, or, *if the duty assignment was court reporter or senior court reporter*, 6 in typing, for a total of 21 semester hours (11/75).

MOS–71E–002

COURT REPORTER

71E20
71E50

Exhibit Dates: 3/76–8/77.

Career Management Field: 71 (Administration), *subfield* 714 (Legal).

Description

Summary: Takes notes of activities and statements in legal proceedings and prepares them for inclusion in official legal documents; able to perform the duties required for 71B30 (Clerk-Typist). NOTE: May have previously held MOS 71C (Stenographer) or 71S (Attaché Specialist). *Skill Level 20:* Records complete details of statements and activities during legal proceedings; takes dictation at 175–200 words per minute, usually by means of a stenomask (an oral dictating machine), although stenotype or shorthand may be used; transcribes testimony at a minimum speed of 40 words per minute, maintains the records of military legal proceedings. *Skill Level 50:* Able to perform the duties required for Skill Level 20; serves as chief court reporter in a judge advocate section in lieu of a chief legal clerk (71D50); supervises legal office activities; reviews records prepared by subordinates for correctness and proper application of legal policies and procedures.

Recommendation, Skill Level 20

In the vocational certificate category, 9 semester hours in dictation and transcription, 6 in typing, 3 in office procedures, and 3 in business communications or technical writing, for a total of 21 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in dictation and transcription, 6 in typing, 3 in office procedures, 3 in business communications or technical writing, and 3 in English composition, for a total of 24 semester hours (6/76).

Recommendation, Skill Level 50

In the vocational certificate category, 9 semester hours in dictation and transcription, 6 in typing, 3 in office procedures, and 3 in business communications or technical writing, for a total of 21 semester hours. In the lower-division baccalaureate/associate degree category, 9 semester hours in dictation and transcription, 6 in typing, 3 in office procedures, 3 in business communications or technical writing, 3 in English composition, 3 in military legal practices and procedures, and 3 in personnel supervision, for a total of 30 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in office management, and 3 for field experience in legal office management, for a total of 9 semester hours (6/76).

MOS–71E–003

COURT REPORTER

71E20
71E30
71E40
71E50

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–71F–001

POSTAL CLERK

71F20
71F40
71F50

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 71F was discontinued and its functions were incorporated into MOS 71L, Administrative Specialist.)

Career Management Field: 71 (Administration), *subfield* 711 (General Administration).

Description

Summary: Provides postal sales and services to customers. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer) or 71S (Attaché Specialist). *Skill Level 20:* As a clerk, assists and serves customers by selling stamps, issuing and cashing money orders, giving information about mail restrictions, special delivery and handling procedures, preparing forms for mail subject to customs inspection, computing postage, filing claims for lost or damaged mail, and issuing insurance; sorts and distributes mail; adheres to U.S. Post Office and Army regulations; keeps records of financial transactions and administrative matters; inventories property. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor of a maximum of seven clerks; trains, assigns duties to, and reviews the work of clerks; plans and organizes the layout and operation of a postal facility; investigates complaints; inspects mail room to insure proper handling of mail. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level supervisor of more than 17 clerks; manages the entire operation of a postal facility.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in retailing or records administration or office management (3/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in retailing or records administration or office management, and 3 in personnel supervision (3/75).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in retailing or records administration or office management, 3 in personnel supervision and 3 in business administration, for a total of 9 semester hours (3/75).

MOS–71G–001

MEDICAL RECORDS SPECIALIST

71G20
71G40

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 711 (General Administration).

Description

Summary: Performs or supervises patient admissions and transfers, patient administration, medical records and reports, and other administrative duties in the registrar division of hospitals or other medical facilities. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), or 71S (Attaché Specialist). *Skill Level 20:* Performs medical administrative duties; receives patients; checks care eligibility; prepares admission records; arranges appropriate patient placement; prepares daily admission and disposition reports; accounts for and safeguards funds received and deposits of patient funds and valuables; classifies, indexes, and files medical records; prepares medical reports, statistical tables, graphs, and charts; provides medical research service to professional staff; prepares correspondence relating to medical records, medical board proceedings, investigation reports, eligibility for health benefits; reviews medical boards for completeness and compliance with directives; coordinates actions required for period re-examination of persons on Temporary Disabled Retired List; assists in handling seriously ill and death cases by assisting survivors in making necessary arrangements. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises and coordinates medical administrative activities; provides information to physicians, attorneys, insurance companies, or government agencies; requisitions supplies; assists in medical emergency operations planning; serves as office manager, supervising up to 29 persons; plans work schedules; assigns duties and instructs personnel in work techniques and procedures.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in medical administrative techniques, 2 in business communications, 2 in medical record keeping, 2 in filing and medical records management, 2 in medical terminology, 2 for field experience in medical office procedures, 1 in medical statistical reporting, and 1 in human relations, for a total of 14 semester hours (11/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in medical office management, 2 in medical terminology, 2 in medical administrative techniques, 2 in business communications, 2 in medical record keeping, 2 in filing and medical records management, 2 in human relations, 2 in personnel management, and 1 in medical statistical reporting, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semes-

ter hours for field experience in office management, 2 in introduction to management, and 1 for field experience in hospital administration, for a total of 6 semester hours (11/75).

MOS–71G–002

MEDICAL RECORDS SPECIALIST

71G10
71G20
71G30
71G40
71G50

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–71L–001

ADMINISTRATIVE SPECIALIST

71L20
71L40
71L50

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 711 (General Administration).

Description

Summary: Performs administrative office functions for a military headquarters unit; performs duties comparable to those of the civilian occupation, administrative assistant. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), or 71S (Attaché Specialist). *Skill Level 20:* Drafts, types, and assembles unit publications, forms, and reports; prepares correspondence, tables, graphs, and charts; answers inquiries on administrative and clerical matters; sets up and keeps alphabetic and numeric files; processes incoming and outgoing mail; receives, stores, issues, and updates publications; analyzes work flow and report form design. *Skill Level 40:* Able to perform the duties required for Skill Level 20; plans, organizes, and supervises office operations; reviews correspondence and establishes mail distribution; controls use of Xerox and other reproduction and duplicating facilities. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises operation of administrative functions in Adjutant General or Inspector General sections and higher-level headquarters; inspects administrative activities and makes recommendations to correct deficiencies; interprets and supervises the execution of company policy and operating procedures; advises superiors on personnel matters; gives instructions to subordinate supervisors; coordinates company food service and supply activities.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in business communications, 3 in office procedures, 3 in typing, 3 for field experience in office practice, 2 in records management, and 1 in public relations, for a total of 16 semester hours (11/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in business communications, 3 in records management, 3 in office procedures, 3 in typing, 3 for field experience in office management, 2 in public relations, 2 in office management, and 2 in duplicating operations, for a total of 22 semester hours. In the upper-division baccalaureate category, 2 semester hours in office management and 3 for field experience in office management (11/75).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours for field experience in office management, 4 in business communications, 4 in public relations, 3 in records management, 3 in office procedures, 3 in office management, 3 in personnel management, 3 in typing, and 2 in duplicating operations, for a total of 31 semester hours. In the upper-division baccalaureate category, 3 semester hours in office management, 3 in personnel management, and 3 for field experience in office management, for a total of 9 semester hours (11/75).

MOS–71L–002

ADMINISTRATIVE SPECIALIST

71L10
71L20
71L30
71L40
71L50

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–71M–001

CHAPLAIN'S ASSISTANT

71M20
71M50

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 711 (General Administration).

Description

Summary: Acts as an administrative assistant to a military chaplain; performs or supervises office activities such as preparing correspondence, maintaining personnel records, and assisting in budget preparation; assists the chaplain in developing and operating religious education programs; equivalent to a civilian hospital chaplain's assistant or an administrative assistant in a church or synagogue. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), or 71S (Attaché Specialist). *Skill Level 20:* Performs general office duties such as reception, record keeping, written communications, and budgeting; assists in the development and establishment of religious education programs. *Skill Level 50:* Able to perform the duties required for Skill Level 20; supervises activities that assist the chaplain; acts as a paraprofessional in assisting the chaplain in the establishment and operation of religious education programs, conferences, seminars, and lectures.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in business communications, 2 in communication skills, 1 in filing, and 1 in office management, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in business communications, 2 in communication skills, and 1 in introduction to audio-visual equipment, for a total of 5 semester hours (11/75).

Recommendation, Skill Level 50

In the vocational certificate cutegory, 4 semester hours in communications skills, 3 in office management, 2 in business communications, and 1 in filing, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 4 semester hours in communications skills, 2 in business communications, 2 in office management, and 1 in introduction to audio-visual equipment, for a total of 9 semester hours (11/75).

MOS–71M–002

CHAPLAIN'S ASSISTANT

71M10
71M20
71M30
71M40
71M50

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–71N–001

TRAFFIC MANAGEMENT COORDINATOR

71N10
71N20
71N30
71N40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 641 (Surface Operations).

Description

Summary: Coordinates the departure and arrival of freight and personnel by air, rail, highway, and water. *Skill Level 10:* Performs clerical duties associated with the logistics of freight and personnel movements; issues government and civilian shipping documents, including freight bills, bills of lading, and freight manifest sheets; assists military members in the preparation of travel itineraries, personal property shipping documents, and passenger movement forms. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises medium-scale freight movement office; plans, directs, and controls operation of subordinate personnel; assists in the development of future transportation plans; supervises freight reconsignment, maintains liaison with military and civilian transportation facilities; reviews, consolidates and prepares reports covering transportation movement operations. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises personnel at a large-scale freight movement office; when requested, reviews recommendations concerning facilities and site selection for depots, terminals, and railheads; advises superiors on present and future transportation capabilities and technical problems.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 1 semester hour in traffic and transportation or in physical distribution management (5/76).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in traffic and transportation or physical distribution management (5/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in traffic and transportation or in physical distribution management, 3 in human relations, 3 in personnel supervision and additional credit in traffic and transportation or in physical distribution management on the basis of institutional evaluation, for a minimum total of 10 semester hours (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in traffic and transportation or in physical distribution management, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and additional credit in traffic and transportation or in physical distribution management on the basis of institutional evaluation, for a minimum total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management (5/76).

MOS–71P–001

FLIGHT OPERATIONS COORDINATOR

71P20
71P40
71P50

Exhibit Dates: 10/73–2/76.

Career Management Field: 65 (Transportation), *subfield* 655 (Air Operations).

Description

Summary: Schedules, clears, and dispatches aircraft. *Skill Level 20:* Prepares routing and flight orders; processes local and extended flight clearances, coordinates flight plans with other agencies such as FAA; maintains flight information board; keeps records and reports on flight operation activities; arranges ground services for transient aircraft; interprets weather reports and weather maps; understands and corrects aeronautical charts and publications used in navigation. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the scheduling, clearance, and dispatching of aircraft; plans and schedules work assignments; trains personnel; obtains instrument flight clearances; plans and supervises the movement of both personnel and cargo by air. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager responsible for either flight operations or overall operations of a unit such as a division aviation section or an operations section of an aviation battalion. NOTE: May have progressed to 71P50 from 71P40 or 93D40 (Flight Simulator Specialist).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft dispatching, 3 in aircraft operations management, and 2 in office practices, for a total of 8 semester hours. In the upper-division baccalaureate category, credit on the basis of institutional evaluation (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 6 semester hours in aircraft dispatching, 6 in aircraft operations management, 3 in personnel management, 3 in personnel training, and 2 in office practices, for a total of 20 semester hours (2/75).

Recommendation, Skill Level 50

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 6 semester hours in aircraft dispatching, 6 in aircraft operations management, 6 in personnel management, 6 in personnel training, and 2 in office practices, for a total of 26 semester hours (2/75).

MOS–71P–002

FLIGHT OPERATIONS COORDINATOR

71P10
71P20
71P30
71P40
71P50

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 644 (Air Operations).

Description

Summary: Schedules, clears, and dispatches aircraft. *Skill Level 10:* Processes cross-country and local flight clearances; coordinates flight plans with other agencies, such as the FAA; maintains flight information; prepares, types, and maintains records and reports on flight operations and activities; maintains current files on flying regulations and navigational aid information; arranges ground services for transient aircraft; interprets and posts teletype weather reports; understands terminology used in air navigation and is aware of air traffic control advisory procedures. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises a small flight operations activity consisting of 5 to 12 subordinate personnel; schedules aircraft missions, dispatches aircraft, and performs associated administrative duties; plans and schedules work assignments of subordinate flight operations personnel; checks work of subordinates and instructs them in proper work techniques and procedures; reviews, consolidates, and prepares technical, personnel, and administrative reports; assists in preparing pre-accident plans. *Skill Level 30:* Performs the duties required for Skill Level 20 and supervises a medium-sized flight operations activity consisting of 13 or more subordinate personnel; provides technical guidance to subordinate personnel; supervises the preparation of the situation map; prepares operations letters; assists administratively in aircraft accident investigations; assists in the preparation of letters of agreement, operations estimates, and operations orders. *Skill Level 40:* Performs the duties required for Skill Level 30 and supervises a large flight operations activity. *Skill Level 50:* Able to perform the duties required for preceding skill levels; is a mid-level manager.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft dispatching, 3 in aircraft operations management, 3 in federal aviation regulations, and 2 in office practices, for a total of 11 semester hours (6/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in aircraft dispatching, 3 in aircraft operations management, 3 in federal aviation regulations, and 2 in office practices, and additional credit in personnel supervision on the basis of institutional evaluation, for a minimum total of 11 semester hours. In the upper-division baccalaureate category, credit in aviation management or air traffic operations on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in aircraft dispatching, 6 in aircraft operations management, 3 in federal aviation regulations, 3 in personnel supervision, 3 in organization and management, and 2 in office practices, for a total of 23 semester hours. In the upper-division baccalaureate category, credit in aviation management or air traffic operations on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in aircraft dispatching, 6 in aircraft operations management, 3 in federal aviation regulations, 6 in personnel supervision, 3 in organization and management, 3 in human relations, and 2 in office practices, for a total of 29 semester hours. In the upper-division baccalaureate category, 6 semester hours in aviation management or air traffic operations and additional credit on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in aircraft dispatching, 6 in aircraft operations management, 3 in federal aviation regulations, 6 in personnel supervision, 3 in organization and management, 3 in human relations, and 2 in office practices, for a total of 29 semester hours. In the upper-division baccalaureate category, 6 semester hours in aviation management or air traffic operations, 6 for field experience in management, 3 in introduction to management, and 3 in personnel management, and additional credit for an internship in education on the basis of institutional evaluation, for a minimum total of 18 semester hours (6/76).

MOS–71Q–001

INFORMATION SPECIALIST

71Q20
71Q40
71Q50

Exhibit Dates: 10/73–2/77.

Career Management Field: 71 (Administration), *subfield* 715 (Information).

Description

Summary: Supervises or participates in the administration of information programs. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), or 71S (Attaché Specialist). *Skill Level 20:* Serving as a reporter, is responsible for gathering information; preparing and editing news items, feature articles, and editorials for newspapers; preparing publicity releases and information releases; and taking, developing, and selecting photographs. Serving as an editor, edits news stories, prepares headlines and captions, plans format and layout, corrects and revises galley sheets, considers libel and copyright laws, makes reporter assignments. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises and coordinates an information program and trains subordinates in all aspects of journalism. *Skill Level 50:* Able to perform the duties required for Skill Level 40; coordinates the activities of a large information program involving several media.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in news reporting, 3 in feature writing, 3 in basic photography, 3 in publicity release writing, and 6 for field experience in journalism, for a total of 21 semester hours; *if the duty assignment was editor,* additional credit as follows: 3 semester hours for a practicum in news preparation, 3 for a practicum in news editing, 3 in layout and design, 3 for field experience in management, and 3 in personnel supervision, for a total of 36 semester hours (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 20 for the duty assignment as editor (36 semester hours). In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in human relations, and 6 for field experience in public relations (5/76).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 20 for the duty assignment as editor (36 semester hours). In the upper-division baccalaureate category, 3 semester hours in human relations, 3 in introduction to management, 3 in office management, 3 in records administration, 6 for field experience in management, and 6 for field experience in public relations, for a total of 24 semester hours (5/76).

MOS–71Q–002

JOURNALIST

71Q10
71Q20
71Q30
71Q40

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–71R–001

BROADCAST SPECIALIST

71R20
71R40
71R50

Exhibit Dates: 10/73–2/77.

Career Management Field: 71 (Administration), *subfield* 715 (Information).

Description

Summary: Supervises or participates in the operation of a radio or television broadcast center. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), or 71S (Attaché Specialist). *Skill Level 20:* Prepares scripts, announces, and gives play-by-play coverage of events; operates sound equipment and performs preventive maintenance. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as script supervisor, producer, and director of radio or television programs. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as station manager and coordinates programs and broadcast activities within the Armed Forces network.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in broadcast news writing, 3 in continuity writing, 3 in announcing, 3 in studio techniques, 3 for field experience in television production, and additional credit on the basis of institutional evaluation, for a minimum total of 15 semester hours (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 20 plus 6 semester hours for television workshop, 3 in television directing, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a minimum total of 33 semester hours (5/76).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 6 in broadcasting station management, and 3 in records administration, for a total of 18 semester hours (5/76).

MOS–71R–002

BROADCAST JOURNALIST

71R10
71R20
71R30
71R40

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–71S–001

ATTACHÉ SPECIALIST

71S20
71S30

Exhibit Dates: 10/73–9/77. (Effective 9/77, MOS 71S was discontinued and its functions were incorporated into MOS 71L, Administrative Specialist.)

Career Management Field: 71 (Administration), *subfield* 711 (General Administration).

Description

Summary: Performs general administrative and office duties in support of Defense Army Attaché office located in an embassy of the United States of America; able to perform the duties required for 71B20 (Clerk-Typist). *Skill Level 20:* Types at a minimum speed of 35 words per minute; drafts and assembles correspondence; answers or responds to inquiries; operates duplicating equipment; prepares, computes, and processes vouchers for payment; drives and performs operator maintenance on sedan; establishes and keeps administrative and intelligence files; use intelligence procedures to route classified correspondence, to file intelligence data, and to safeguard classified information in the office; assists the attaché in collecting, integrating, tabulating, writing, and disseminating intelligence information; prepares distribution lists for intelligence reports; types and proofreads intelligence reports; coordinates with United States intelligence and embassy personnel to facilitate the flow and exchange of intelligence information. *Skill Level 30:* Performs the duties required for Skill Level 20; performs cryptographic functions, including encrypting and decrypting messages, the preparation of reports on cryptographic operation, and the safeguarding of cryptographic materials; instructs less experienced personnel in proper work techniques and procedures.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in typing, 3 in office practices, 2 in filing, 2 in business communications, 2 in record keeping, and 1 in business machines (duplicating), for a total of 14 semester hours 5/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20, plus 2 additional semester hours in typing, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in typing, 3 in office practices, 2 in filing, 2 in business communications, 2 in record keeping, 1 in business machines (duplicating), 3 in human relations, and 3 for field experience in office management, for a total of 22 semester hours (5/76).

MOS–71U–001

CARD AND TAPE WRITER

71U20
71U40

See the exhibit for MOS 74B.

MOS–72B–001

COMMUNICATIONS CENTER SPECIALIST

72B10
72B20
72B30
72B40

Exhibit Dates: 10/73–9/74. (Effective 10/74, MOS 72B was discontinued and its functions were incorporated into MOS 72E, Telecommunications Center Specialist.)

Career Management Field: 72 (Communications and Audio Visual), *subfield* 721 (Communications Operations).

Description

Summary: Supervises communications center activities or operates automatic, semiautomatic, and manual teletypewriter equipment, cryptodevices, and related office equipment to send, receive, and route messages of a technical or classified nature. *Skill Level 10:* Performs as a messenger. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates teletypewriter and associated office equipment; maintains administrative records in a communications control center. *Skill Level 30:* Able to perform the duties required for Skill Level 20; is a senior telecommunications and office equipment operator working alone or as a member of a team; enforces security regulations; maintains records systems. *Skill Level 40:* Able to perform the duties required for Skill Levels 20 or 30; is a first-line supervisor of teletypewriter operators, with responsibility for the management of a medium-sized or large communications section; reviews machine accounting processes; plans, organizes, and coordinates use of personnel and equipment; may supervise 30 or more persons.

Recommendation, Skill Level 10

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (3/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in typewriting or office machine operation or technical report writing (3/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in typewriting or office machine operation or technical report writing (3/75).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in typewriting or office machine operation and 3 in technical report writing. In the lower-division baccalaureate/associate degree category, 3 semester hours in typewriting or office machine operation, 3 in technical report writing, 3 in management, and 3 in personnel supervision, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in management and 3 in personnel supervision on the basis of institutional evaluation (3/75).

MOS–72C–001

CENTRAL OFFICE SWITCHBOARD OPERATOR (TELEPHONE SWITCHBOARD OPERATOR)

72C20
72C40

Exhibit Dates: 10/73–Present.

Career Management Field: 72 (Telecommunications).

Description

Summary: Supervises or performs operator maintenance on manual, semiautomatic, and automatic switchboards and auxiliary equipment. *Skill Level 20:* Assists in the implacement of mobile switchboards; places local and long distance calls; checks circuits to ascertain proper functioning; reads traffic and cabling diagrams; uses handtools, such as electrician's knife and screwdriver. *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor; schedules operators; instructs operators on proper techniques and routing of calls; maintains updated traffic diagrams for operator reference; maintains station logs; requisitions supplies; supervises preventive maintenance on switchboards and auxiliary equipment; prepares operational and administrative reports.

Recommendation, Skill Level 20

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, and 3 for field experience in management, for a total of 9 semester hours (3/76).

MOS–72E–001

TELECOMMUNICATIONS CENTER SPECIALIST

72E10
72E20
72E30
72E40

Exhibit Dates: 10/74–Present.

Career Management Field: 72 (Telecommunications).

Description

Summary: Supervises or operates telecommunications center equipment and remote data terminal devices or performs functions related to these operations. *Skill Level 10:* Processes and delivers messages and performs related clerical functions in telecommunications centers. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assigns switch center or telecommunications center equipment for operation; installs and operates teletypewriter equipment; performs and records preventive maintenance on all equipment utilized; reproduces and distributes messages. *Skill Level 30:* Able to perform the duties required for Skill Level 20; prepares and maintains the files necessary for accounting of cryptomaterial. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; is a first-line supervisor; coordinates work activities in a data communications terminal; makes work assignments; coordinates equipment phase-down in event of power failure; prepares, conducts, and supervises on-the-job training of subordinate personnel; reviews accounting procedures and recommends necessary improvements; provides technical information on communications center operations to superiors; prepares final reports.

Recommendation, Skill Level 10

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (3/76).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in basic electronics and 3 for field experience in communications center operations. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics (3/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics and 3 in records administration (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in basic electronics, 3 in records administration, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (3/76).

MOS–72F–001

DATA COMMUNICATIONS TERMINAL SPECIALIST

72F20
72F40

Exhibit Dates: 10/73–9/74. (Effective 10/74, MOS 72F was discontinued and its functions were incorporated into MOS 72E, Telecommunications Center Specialist.)

Career Management Field: 72 (Telecommunications).

Description

Summary: Operates communication terminal equipment, including teletypewriter, cards, tapes, and cryptographic and associated devices. *Skill Level 20:* Processes and delivers messages; reviews data presented for adherence to procedures, format, routing, and precedence for input to an automated data communications network; operates control equipment to integrate teletype systems with digital network; performs preventive maintenance on data communications terminal equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises data communications terminal operations, personnel, and equipment maintenance activities; prepares technical and administrative reports; conducts on-the-job training.

Recommendation, Skill Level 20

In the vocational certificate or in the lower-division baccalaureate/associate degree category, 3 semester hours in communications equipment operation, 3 in digital data transmission, 3 in basic mathematics, 2 in typing, 1 in electronic communication theory, 1 in electronic equipment maintenance, 1 in digital principles, and 1 in AC and DC circuits, for a total of 15 semester hours (3/75).

Recommendation, Skill Level 40

In the vocational certificate or in the lower-division baccalaureate/associate degree category, 3 semester hours in communications equipment operation, 3 in digital data transmission, 3 in basic mathematics, 3 in office management, 3 in personnel supervision, 2 in typing, 1 in electronic communication theory, 1 in electronic equipment maintenance, 1 in digital principles, and 1 in AC and DC circuits, for a total of 21 semester hours; *if pay grade E-7 was achieved,* 3 additional credits for field experience in data communications (3/75).

MOS–72G–001

DATA COMMUNICATIONS SWITCHING CENTER SPECIALIST

72G20
72G40
72G50

Exhibit Dates: 3/75–Present.

Career Management Field: 72 (Telecommunications).

Description

Summary: Operates and monitors data communications equipment and peripheral devices in an automatic digital message switching center. *Skill Level 20:* Operates data communication equipment, including system control to monitor and direct digital message switching center operations; processes and transmits messages; understands circuit and message switching capabilities of data communications switching center equipment; assigns computer and peripheral equipment configurations for message processing on-line operation, off-line operation, and maintenance functions; prepares messages for transmission in paper tape or card form; prepares system flow of data to and from digital computers connected to electromechanical devices; operates peripheral equipment such as card readers, card punches, magnetic tape stations, high-speed printers, control consoles, off-line message processor, and teletypewriters; prepares station logs, assures adequate supplies, keeps files, indexes tapes, and prepares in-station message-handling efficiency statistics. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a shift supervisor or traffic service supervisor; supervises switching center shift operations applicable to console and console traffic service operations, programming, technical control, and terminal activities; coordinates routing of traffic with other stations and equipment maintenance; directs and conducts on-the-job training; prepares reports on such topics as circuit and equipment outages, traffic statistics, software and hardware deficiencies, program patches, circuit restoral actions, and procedural problems. NOTE: May have progressed to 72G40 from 72G20 or 72E40 (Telecommunications Center Specialist). *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as a data communications supervisor or manager; performs office management functions; assists in problem-solving pertinent to programming, tributaries, equipment, maintenance, and administration; prepares administrative and technical reports on cryptographic and data communications center operation; supervises organization, training, and technical operations. NOTE: May have progressed to 72G50 from 72G40, 72E40 (Telecommunications Center Specialist), 72H40 (Central Office Operations Specialist), or 72C40 (Central Office Switchboard Operator).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, or in the upper-division baccalaureate category, 3 semester hours in principles of data communications (6/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of data communications, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in principles of data communications and 3 for field experience in management (6/76).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of data communications, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and 3 in technical writing, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in principles of data communications, 3 for field experience in management, and 3 in introduction to management, for a total of 9 semester hours (6/76).

MOS–72H–001

CENTRAL OFFICE OPERATIONS SPECIALIST

72H20
72H40

Exhibit Dates: 10/74–Present.

Career Management Field: 72 (Telecommunications).

Description

Summary: Supervises or operates switchboards and radio consoles providing communications to the President and other persons and offices of the executive branch of the government. *Skill Level 20:* Able to perform the duties required for 72C20 (Central Office Switchboard Operator); sets up and operates voice transmissions equipment to provide ground and air communications; makes continuity checks to ensure all local and nationwide circuits are working; maintains a roster showing current locations of staff, cabinet, and military officials and aides; maintains charts, circuitry logs, and worldwide locator systems pertaining to presidential communications networks; uses security regulations; employs proper telephone operator procedures; installs switchboards and radiophone interfaced equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises central office communications operations; initiates training programs and sets standards for training of central office personnel; oversees preventive maintenance of switchboard and auxiliary equipment; coordinates with telephone companies, both domestic and foreign, for placement of telephone service and long-line circuits; instructs and demonstrates proper work procedures and techniques; estimates traffic loads and equipment utilization; supervises the installation and maintenance of radio and telephone communications equipment.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 3 in elementary broadcasting, and 3 in small instrument repair, for a total of 9 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 3 in elementary broadcasting, 3 in small instrument repair, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in systems management (3/76).

MOS–73C–001

FINANCE SPECIALIST

73C20
73C30
73C40

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 713 (Finance).

Description

Summary: Receives and disburses cash; keeps financial records pertaining to payroll, travel, commercial accounts, and leave. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), or 71S (Attache Specialist). *Skill Level 20:* Under supervision, disburses, collects, and keeps custody of cash, checks, and bonds; balances and reconciles cash blotter and check register; exchanges foreign currency and military payment certificates; counsels and assists persons with pay and allowance problems; reviews accuracy of data, coding, numbering, and processing of documents, correspondence, and computer input and output for the Army pay system; posts and annually reviews military leave records; keeps records and prepares reports for income taxes and FICA; prepares statements of legal residence; keeps pay accounts for civilian employees, including payroll control registrar and leave accounts; determines the validity of commercial bills by examining supporting and substantiating documents; processes valid bills for payment and keeps bills, register, and file of documents; prepares, processes, and makes payment of vouchers for supplies, equipment, and non-personnel services; applies computer-oriented language in recording data. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs quality assurance audits of pay, leave, travel, disbursement, and collection records; performs comprehensive reviews of on-site personnel financial records; detects errors, determines the causes, and initiates corrective changes; verifies procedures for examination and determination of entitlements; conducts pay inquiry analyses and procedural reviews; modifies procedures to improve efficiency, insure accuracy, and assure proper financial accountability; interprets and applies directives, regulations, and other legal requirements on civilian, military, and dependent personnel travel and dislocation allowances; interprets and applies Comptroller General decisions. *Skill Level 40:* Able to perform the duties required for Skill Level 30; as a first-line supervisor, plans and organizes work schedules, assigns duties, and instructs subordinates in proper work techniques and procedures; prepares administrative, technical, and personnel reports; provides liaison with finance organizations.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in business mathematics, 3 in government payroll procedures, 3 in business communications, 3 in introduction to credit, 2 in office practices, and 1 in typing, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in business mathematics, 3 in business communications, 3 in government payroll procedures, 2 in office practices, 1 in typing, and 1 in personal finance and credit, for a total of 13 semester hours (3/75).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in business mathematics, 3 in government payroll procedures, 3 in office management, 3 in office accounting, 3 in introduction to credit, 3 in business communications, 2 in office practices, and 2 in typing, for a total of 22 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in business mathematics, 3 in business communications, 3 in government payroll procedures, 3 in office management, 2 in office practices, 2 in typing, and 1 in personal finance and credit, for a total of 17 semester hours (3/75).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in business mathematics, 3 in government payroll procedures, 3 in office accounting, 3 in introduction to credit, 3 in business communications, 3 in report writing, 3 in office management, 2 in office practices, and 2 in typing, for a total of 25 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in business mathematics, 3 in business communications, 3 in government payroll procedures, 3 in office management, 3 in personnel supervision, 3 in report writing, 2 in office practices, 2 in typing, and 1 in personal finance and credit, for a total of 23 semester hours (3/75).

MOS–73C–002

FINANCE SPECIALIST

73C10
73C20
73C30
73C40

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–73D–001

ACCOUNTING SPECIALIST

73D20
73D30
73D40

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 713 (Finance).

Description

Summary: Conducts fiscal accounting, internal review, and budget operations. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), or 71S (Attaché Specialist). *Skill Level 20:* Under supervision, analyzes, records, reconciles, and reports accounting transactions; keeps general, subsidiary, and cost accounting ledgers, journals, and fund control records; keeps vouchers and other files to support ledger entries; prepares cost reports and correspondence concerning funds and supply transactions; reviews requests for funds for legality, conformity with policy, and availability; keeps control accounts of consumer funds, financial property, stock funds, and industrial funds. *Skill Level 30:* Able to perform the duties required for Skill Level 20; under supervision, performs budgeting and internal review operations at military bases and higher levels of command; advises superiors on policies and procedures pertaining to budgeting and internal review; assists superiors in the development of instructions for data collection and the preparation and analysis of budget reports; prepares reports, estimates, and analyses required for budget management purposes. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; is a first-line supervisor; plans and coordinates all phases of accounting, internal review, and budget operations; instructs subordinates in work techniques and procedures; reviews subordinates' work; plans and coordinates with the data processing center all activities that pertain to mechanized accounting, such as processing daily business, preparing reports, and changes in regulations that affect input and output; assists in designing mechanized accounting systems; coordinates the preparation activities for visits by Army Audit Agency and General Accounting Office representatives.

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in clerical record keeping, 3 in business mathematics, 3 in business communications, 2 in accounting principles, 2 for field experience in accounting, and 1 in typing, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in business mathematics, 3 in business communications, 2 in accounting principles, 2 for field experience in accounting, and 1 in typing, for a total of 11 semester hours (3/75).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in clerical record keeping, 3 in business mathematics, 3 in business communications, 3 in office management, 2 in accounting principles, and 1 in typing, for a total of 16 semester hours; *if pay grade E-7 was achieved,* add 4 semester hours for field experience in accounting, for a total of 20 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in business mathematics, 3 in business communications, 3 in office management, 2 in principles of accounting, and 1 in typing, for a total of 12 semester hours; *if pay grade E-7 was achieved,* 4 additional semester hours for field experience in accounting, for a total of 16 semester hours (3/75).

Recommendation, Skill Level 40

In the vocational certificate category, 4 semester hours in clerical record keeping, 2 in accounting principles, 6 for field experience in accounting, 3 in business mathematics, 3 in business communications, 3 in office management, 3 in introduction to data processing, and 1 in typing, for a total of 25 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in business mathematics, 3 in business communications, 3 in office management, 3 in personnel supervision, 3 in introduction to data processing, 2 in principles of accounting, 4 for field experience in accounting, and 1 in typing, for a total of 22 semester hours (3/75).

MOS–73D–002

ACCOUNTING SPECIALIST

73D10
73D20
73D30
73D40

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–73Z–001

FINANCE SENIOR SERGEANT73Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 71 (Administration), *subfield* 713 (Finance).

Description

Summary: Able to perform the duties required for 73C40 (Finance Specialist), and 73D40 (Accounting Specialist); supervises or performs finance operations, accounting operations, or comptroller functions at military installations, agencies, or commands; supervises and reviews payroll accounting procedures and records, travel disbursements, and internal review and budget functions; performs staff functions such as research and preparation of financial accounting statements and statistical reports; as a finance operations chief at Grade E-8, supervises a minimum of 25 persons; as a finance operations chief at Grade E-9, supervises a minimum of 60 persons. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer) or 71S (Attaché Specialist).

Recommendation

In the vocational certificate category, 6 semester hours for field experience in accounting, 3 in payroll accounting, 3 in business communications, 1 in filing, and additional credit as follows: *if the duty assignment was division chief at Pay Grade E-8*, 4 semester hours in office management, 4 in personnel supervision, and 2 in budgeting and systems, for a total of 23 semester hours; *if the duty assignment was finance operations chief at pay Grade E-8*, 5 semester hours in office management, 5 in personnel supervision, and 3 in budgeting and systems, for a total of 26 semester hours; *if the duty assignment was finance operations chief at pay Grade E-9*, 6 semester hours in office management, 6 in personnel supervision, and 4 in budgeting and systems, for a total of 29 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours for field experience in accounting, 3 in business communications, and additional credit as follows: *if the duty assignment was division chief at pay Grade E-8*, 4 semester hours in personnel supervision and 4 in office management, for a total of 17 semester hours; *if the duty assignment was finance operations chief at pay Grade E-8*, 5 semester hours in personnel supervision, 5 in office management, and 1 in accounting systems, for a total of 20 semester hours; *if the duty assignment was finance operations chief at pay grade E-9*, 6 semester hours in personnel supervision, 6 in office management, and 2 in accounting systems, for a total of 23 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management, and additional credit as follows: *if the duty assignment was either division chief at pay grade E-8 or finance operations chief at pay grade E-8*, 3 semester hours for field experience in management, for a total of 6 semester hours; *if the duty assignment was finance operations chief at pay grade E-9*, 6 semester hours for field experience in management, for a total of 9 semester hours (11/75).

MOS–74B–001

CARD AND TAPE WRITER

74B10
74B20

Exhibit Dates: 10/73–Present. NOTE: Until 9/75, this MOS was designated 71U20 and 71U40, Card and Tape Writer.

Career Management Field: 74 (Automatic Data Processing), *subfield* 741 (Data Processing Equipment Operations).

Description

Summary: Operates keypunch, verifier, paper tape punch, and key tape machine to translate input data into machine readable form; corrects any errors which may occur in the transcribing process. *Skill Level 10:* Able to prepare program drum cards for keypunch, follow record format specifications, and load and unload the machines. NOTE: May have progressed to 74B10 from 71B10 (Clerk-Typist). *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises the conversion of input data into machine readable format and maintains quality control; trains and assigns work to subordinates; maintains workload records; initiates operating changes; requisitions, stores, and issues supplies and equipment.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in keypunch operation (12/75).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in keypunch operation and 3 in office administration. In the lower-division baccalaureate/associate degree category, 3 semester hours in office administration (12/75).

MOS–74D–001

ADPS MACHINE OPERATIONS SPECIALIST

74D20
74D40

Exhibit Dates: 10/73–8/75.

Career Management Field: 74 (Automatic Data Processing), *subfield* 741 (Data Processing Equipment Operations).

Description

Summary: Operates or supervises the operation of a computer console and computer peripheral equipment; operates or supervises the operation of unit-record equipment. *Skill Level 20:* Able to operate unit-record devices such as sorters, interpreters, reproducers, card processors, and collators; wires control panels; able to operate computer peripheral equipment such as card reader/punch, printers, tape duplicators, tape units, and optical scanners. *Skill Level 40:* Able to perform the duties required for Skill Level 20; able to supervise control panel wiring and operation of unit-record equipment and computer peripheral devices.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in unit-record operation (12/75).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in unit-record operation and 3 in office administration. In the lower-division baccalaureate/associate degree category, 3 semester hours in office administration (12/75).

MOS–74D–002

COMPUTER/MACHINE OPERATOR

74D10
74D20
74D30
74D40

Exhibit Dates: 9/75–Present.

Career Management Field: 74 (Automatic Data Processing), *subfield* 741 (Data Processing Equipment Operations).

Description

Summary: Operates or supervises the operation of a computer console and computer peripheral equipment; operates or supervises the operation of unit-record equipment. *Skill Level 10:* Operates unit-record devices such as sorters, interpreters, reproducers, card processors, collators, and decollators; operates computer peripheral equipment such as card reader/punch, printers, tape and disk units, and optical scanners; may prepare wiring diagrams and wire control panels; performs functions of a scheduling clerk and tape librarian. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates the console of small, medium, or large scale computer systems; interprets system flow charts; supervises all activities within a tape library. NOTE: May have progressed to 74D20 from 74D10 or 74B10 (Card and Tape Writer). *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises the operation of a computer console, peripheral computer equipment, and unit-record equipment. NOTE: May have progressed to 74D30 from 74D20 or 74B20 (Card and Tape Writer). *Skill Level 40:* Able to perform the duties required for Skill Level 30; schedules production and prepares work schedules; assigns duties and instructs personnel in work techniques.

Recommendation, Skill Level 10

In the vocational certificate category, 3 semester hours in unit-record operation and 2 in computer operations (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in unit-record operation and 4 in computer operations. In the lower-division baccalaureate/associate degree category, 1 semester hour in computer operations management (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in unit-record operation and 4 in computer operations. In the lower-division baccalaureate/associate degree category, 2 semester hours in computer operations management (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in unit-record operations and 4 in computer operations. In the lower-division baccalaureate/associate degree category, 4 semester hours in computer operations management, 3 in human relations, 3 for field experience in management, and additional credit in personnel supervision on the basis of institutional evaluation, for a minimum total of 10 semester hours (6/76).

MOS–74E–001

COMPUTER SYSTEMS OPERATOR

74E10
74E20
74E30
74E40

Exhibit Dates: 10/73–8/75. (Effective 9/75, MOS 74E was discontinued and its functions were incorporated into MOS 74D, Computer/Machine Operator.)

Career Management Field: 74 (Automatic Data Processing), *subfield* 741 (Data Processing Equipment Operations).

Description

Summary: Operates electronic computer console and auxiliary equipment. *Skill Level 10:* Performs computer console supporting activities; mounts magnetic disk and tape; operates ADP equipment; keeps a magnetic tape library. *Skill Level 20:* Able to perform the duties required for Skill Level 10; operates a computer system consisting of a central processing unit, magnetic tape units and/or disk storage units in a nonmultiprogramming or nonmultiprocessing environment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; operates a computer system in multiprogramming and multiprocessing environment; operates a computer system which has remote-inquiry stations and a program-interrupt capability. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises computer system and auxiliary equipment operator personnel; prepares production schedules.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing, 3 in file organization and processing, 2 in unit-record machine opera-

tions, and 2 in computer system operations, for a total of 10 semester hours (3/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing, 3 in file organization and processing, 3 in computer system operations, and 2 in unit-record machine operations, for a total of 11 semester hours (3/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 5 semester hours in computer system operations, 3 in introduction to data processing, 3 in file organization and processing, 2 in unit-record machine operations, 2 in computer operating systems, and 1 in introduction to systems analysis and design, for a total of 16 semester hours. In the upper-division baccalaureate category, 2 semester hours in computer operating systems and 1 in introduction to systems analysis and design (3/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 5 semester hours in computer system operations, 3 in introduction to data processing, 3 in file organization and processing, 3 in operations management, 3 in personnel supervision, 2 in unit-record machine operations, 2 in computer operating systems, and 1 in introduction to systems analysis and design, for a total of 22 semester hours. In the upper-division baccalaureate category, 3 semester hours in operations management, 3 in personnel supervision, 2 in computer operating systems, and 1 in introduction to systems analysis and design, for a total of 9 semester hours (3/75).

MOS–74F–001

COMPUTER PROGRAMMER

74F20

Exhibit Dates: 10/73–8/75.

Career Management Field: 74 (Automatic Data Processing), *subfield* 741 (Data Processing Equipment Operations).

Description

Analyzes, writes, tests, and implements computer programs and/or conducts data system studies involving investigation, evaluation, development, and implementation of new or modified data processing systems for an application area; develops procedures necessary for reducing data processing applications into detailed instructions, routines, and codes; constructs flow charts and block diagrams to outline necessary computer operations in the processing of data; develops computer programs from flow charts; tests, debugs, and implements programs; produces necessary documentation.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in mathematics, 3 in introduction to computer programming/data processing, 3 in Assembler language programming, 3 in computer file organization, 3 in advanced programming techniques, 3 in systems and program design, 3 in ANSI COBOL programming, and 3 in computer operating systems, and additional credit for programming skills in other programming languages (FORTRAN, RPG, etc.) on the basis of institutional evaluation, for a minimum total of 27 semester hours. In the upper-division baccalaureate category, 3 semester hours in advanced programming techniques, 3 in systems and program design, and 3 in computer operating systems, and additional credit on the basis of institutional evaluation, for a minimum total of 9 semester hours (3/75).

MOS–74F–002

PROGRAMMER/ANALYST

74F10

74F20

74F30

74F40

Exhibit Dates: 9/75–Present.

Career Management Field: 74 (Automatic Data Processing), *subfield* 741 (Data Processing Equipment Operations).

Description

Summary: Analyzes, writes, tests, and implements computer programs and/or conducts data system studies involving investigation, evaluation, development, and implementation of new or modified data processing systems for an application area. *Skill Level 10:* Assists in the preparation, editing, testing, and implementation of computer programs; prepares and analyzes program and system flow charts; prepares program documentation; reviews and revises computer programs; writes simple Assembler and COBOL programs. *Skill Level 20:* Able to perform the duties required for Skill Level 10; analyzes, writes, edits, tests, and implements computer programs; sorts, merges, and processes runs; writes detailed program specifications for minor problems; may supervise computer programming activities. NOTE: May have progressed to 74F20 from 74F10, 74B10 (Card and Tape Writer), or 74D10 (Computer/Machine Operator). *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs or assists in supervising programming and systems studies in personnel, intelligence, transportation, supply, maintenance, medical, finance, and data communications areas; develops procedures to produce flow charts, block diagrams, and detailed instructions, routines, and codes for data processing application. NOTE: May have progressed to 74F30 from 74F20, 74B20 (Card and Tape Writer), or 74D20 (Computer/Machine Operator). *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises systems analysis and programming activities; supervises, advises, guides, and evaluates programmers and systems analysts.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing, 3 in Assembler language programming, 3 in ANSI COBOL programming, and 3 in systems analysis and design, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in systems analysis and design (6/76).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing, 3 in Assembler language programming, 3 in ANSI COBOL programming, 3 in computer file organization, and 4 in systems analysis and design, for a total of 16 semester hours. In the upper-division baccalaureate category, 4 semester hours in systems analysis and design (6/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing, 3 in Assembler language programming, 3 in ANSI COBOL programming, 3 in computer file organization, and 6 in systems analysis and design, for a total of 18 semester hours. In the upper-division baccalaureate category, 6 semester hours in systems analysis and design (6/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in introduction to data processing, 3 in Assembler language programming, 3 in ANSI COBOL programming, 3 in computer file organization, 6 in systems analysis and design, 3 in systems and programming management, 3 in human relations, 3 for field experience in management, and additional credit in personnel supervision on the basis of institutional evaluation, for a minimum total of 27 semester hours. In the upper-division baccalaureate category, 6 semester hours in systems analysis and design, 3 in systems and programming management, 3 in human relations, and 3 for field experience in management, for a total of 15 semester hours (6/76).

MOS–74C–001

ADP (AUTOMATIC DATA PROCESSING) SYSTEMS ANALYST

74G20

Exhibit Dates: 10/73–8/75. (Effective 9/75, MOS 74G was discontinued and its functions were incorporated into MOS 74F, Programmer/Analyst.)

Career Management Field: 74 (Automatic Data Processing, *subfield* 741 (Data Processing Equipment Operations).

Description

Conducts systems studies involving investigation, evaluation, and development of data processing systems for and in conjunction with a user; performs systems design and prepares detailed systems specifications, including those for all files and programs required; implements new or modified systems and prepares appropriate systems documentation; able to train the system user in the operation of the new system. NOTE: May have progressed to 74G20 from 74C20 (Data Analysis Specialist), 74D20 (ADPS Machine Operation Specialist), or 74F20 (Computer Programmer).

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in systems analysis, 3 in data processing principles, and 3 in computer file organization, for a total of 12 semester hours. In the upper-division baccalaureate category, 6 semester hours in systems analysis (12/75).

MOS–74Z–001

DATA PROCESSING NCO

74Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 74 (Automatic Data Processing), *subfield* 741 (Data Processing Equipment Operations).

Description

Supervises a data processing installation including systems analysts, computer programmers, computer operators, and related support groups; delegates task areas to key subordinates and manages their activities; maintains a current knowledge of accepted systems and programming standards, personnel procedures, and office operation techniques; knows the basic principles of systems analysis, computer hardware, and unit-record equipment; possesses an overall understanding of computer programming. NOTE: May have detailed knowledge in one or more of the following areas: computer operations, computer equipment maintenance, computer programming, and systems analysis, through previous MOS experience in the automatic data processing career management field (74).

Recommendation

In the vocational certificate category, 3 semester hours in unit record data processing, 3 in data processing principles, 2 in computer operations, and 1 in computer programming, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours for field experience in management, 3 in data processing principles, 3 in introduction to management, 3 in office management, 3 in personnel management, 2 in business systems analysis, and 1 in computer programming, for a total of 21 semester hours. In the upper-division baccalaureate category, 6

semester hours for field experience in management, 3 in introduction to management, 3 in office management, 3 in personnel management, and 2 in business systems analysis, for a total of 17 semester hours (12/75).

MOS–75B–001

UNIT CLERK

75B20

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 712 (Personnel).

Description

Performs clerical and related administrative functions, including typing, filing, serving as a receptionist, ordering office supplies, and completing forms.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in typing and 3 in office procedures (11/75).

MOS–75B–002

PERSONNEL ADMINISTRATION SPECIALIST

75B10

75B20

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–75C–001

PERSONNEL MANAGEMENT SPECIALIST

75C20

75C40

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 712 (Personnel).

Description

Summary: Supervises or participates in the occupational classification and management of manpower resources. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), 71S (Attaché Specialist), or 75B (Unit-Clerk). *Skill Level 20:* Classifies, assigns, and reassigns personnel based on evaluation of credentials and qualifications; is familiar with interview techniques and interviews personnel as part of the evaluative process; processes reports, training and assignment requests, and personnel assignments and promotions; monitors personnel management records. Skill Level 40: Able to perform the duties required for Skill Level 20; supervises personnel management function and is capable of supervising up to 8 subordinate personnel management specialists; plans, organizes, and supervises work activities; coordinates personnel management actions with other agencies as necessary.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 3 in interview techniques, and 2 in typing, for a total of 8 semester hours. In the upper-division baccalaureate category, 3 semester hours in principles of vocational counseling (11/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in office procedures, 3 in interview techniques, 3 in personnel supervision, and 2 in typing, for a total of 11 semester hours. In the upper-division baccalaureate category, 3 semester hours in office management principles and practices, 3 in principles of vocational counseling, and 3 for field experience in management, for a total of 9 semester hours (11/75).

MOS–75C–002

PERSONNEL MANAGEMENT SPECIALIST

75C10

75C20

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–75D–001

PERSONNEL RECORDS SPECIALIST

75D20

75D40

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 712 (Personnel).

Description

Summary: Initiates and maintains military personnel records or supervises their initiation and maintenance. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), 71S (Attache Specialist), or 75B (Unit Clerk). *Skill Level 20:* Posts information extracted from several sources on enlisted and officer personnel records; examines records for accuracy and completeness and initiates actions to correct deficiencies; prepares and processes questionnaires; prepares and maintains emergency data and beneficiary records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises up to 33 persons; plans, organizes, and assigns work to subordinates; coordinates activities with other personnel workers; reviews and checks personnel records and information for accuracy; initiates action to change operating procedures, policies, and regulations, when necessary; is responsible for requisitioning, storing, and issuing office supplies and equipment.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 3 in typing, and 3 in business communications or technical writing, for a total of 9 semester hours (11/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 3 in typing, 3 in business communications or technical writing, and 3 in office management, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in office management and 2 for field experience in personnel supervision (11/75).

MOS–75D–002

PERSONNEL RECORDS SPECIALIST

75D10

75D20

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–75E–001

PERSONNEL ACTIONS SPECIALIST

75E20

75E40

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 712 (Personnel).

Description

Summary: Supervises and processes special and routine personnel actions concerning members of the military service; counsels and assists military personnel with personal affairs relating to benefits, rights, and privileges. Related entry-level civilian occupations include personnel clerk, personnel supervisor, or personnel counselor. NOTE: May have previously held MOS 71B (Clerk-Typist), 71C (Stenographer), 71S (Attache Specialist), or 75B (Unit Clerk). *Skill Level 20:* Performs general office duties relative to processing personnel actions; advises and assists military personnel who may be entitled to military benefits; assists in correspondence concerning Social Security benefits; acts as an information referral source in directing individuals with personal affairs problems to appropriate agencies, organizations, and support facilities. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises subordinates who are involved in processing personnel actions and/or assisting and counseling in certain personal affairs; reviews and checks the accuracy of personnel actions; performs office management functions with regard to procedures, policies, and regulations.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in personal finance, 2 in business communications, 2 in communication skills, 2 in office management, and 1 in filing, for a total of 9 semester hours. In the lower-division baccalaureate/associate degree category, 2 in personal finance, 2 in business communications, and 1 in office management, for a total of 5 semester hours (11/75).

Recommendation, Skill Level 40

In the vocational certificate category, 5 semester hours in office management, 3 in personnel supervision, 2 in personal finance, 2 in business communications, and 1 in filing, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in office management, 3 in personnel supervision, 2 in personal finance, and 2 in business communications, for a total of 10 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 2 for field experience in management (11/75).

MOS–75E–002

PERSONNEL ACTIONS SPECIALIST

75E10

75E20

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–75Z–001

PERSONNEL SENIOR SERGEANT

75Z40

75Z50

Exhibit Dates: 10/73–8/77.

Career Management Field: 71 (Administration), *subfield* 712 (Personnel).

Description

Summary: Supervises all aspects of personnel operations, including personnel management, personnel records, and personnel actions; plans and organizes workload and makes work assignments; instructs subordinate personnel; reviews, consolidates, and drafts reports and surveys; researches specific policies and procedures relating to officer and enlisted personnel administration; as a mid-level manager, advises superiors or personnel administrative activities. NOTE: Able to perform the duties required for 75C40 (Personnel Management Specialist),

75D40 (Personnel Records Specialist), or 75E40 (Personnel Actions Specialist). *Skill Level 40:* Supervises up to 18 persons in a segment of a large personnel office or in a small or medium-sized personnel office. *Skill Level 50:* Supervises up to 24 persons in a large segment of a large personnel office or serves as the principal noncommissioned officer of a large personnel office.

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in typing, 3 in office procedures, 3 in business communications or technical writing, and 3 in office management, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in office procedures, 3 in business communications or technical writing, 3 in office management, 3 in personnel supervision, and 3 in managerial principles, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in vocational counseling techniques, 3 in applied psychology, and 6 in personnel management, and additional credit in management on the basis of institutional evaluation, for a minimum total of 15 semester hours (11/75).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in vocational counseling techniques, 3 in applied psychology, 6 in personnel management, 3 for field experience in management, and additional credit in management on the basis of institutional evaluation, for a minimum total of 18 semester hours (11/75).

MOS–75Z–002

PERSONNEL SENIOR SERGEANT

75Z30
75Z40
75Z50

Exhibit Dates: 9/77–Present. Pending evaluation.

MOS–76A–001

SUPPLYMAN

76A10

Exhibit Dates: 10/73–9/74. (Effective 10/74, MOS 76A was discontinued and its functions were incorporated into 76Y10, Unit and Organization Supply Specialist and Armorer.)

Career Management Field: 76 (Supply).

Description

As a storekeeper or warehouse clerk, receives, inventories, inspects, issues, delivers, and transfers property; stores property to provide for rotation of stocks within established sensitive, classified, radioactive, hazardous, and inflammable storage areas; provides for protection of personnel; prevents deterioration, contamination, and destruction of property; uses technical catalogs; knows stock record accounting methods; uses various office machines to maintain the records systems.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in office machine operations, 1 in records management, and 1 in elementary logistics, for a total of 3 semester hours (3/75).

MOS–76D–001

MATERIEL SUPPLYMAN

76D10
76D20
76D30
76D40

Exhibit Dates: 3/76–Present.

Career Management Field: 76 (Supply and Service), *subfield* 761 (Supply).

Description

Summary: Manages, receives, stores, maintains, preserves, and issues major end items and repair part supplies. *Skill Level 10:* Prepares and maintains stock records including inventory, stock control, and accounting reports; operates office machines; prepares requests, processes receipts, maintains prescribed stock levels, and maintains maintenance records; uses catalogs in identification of major assemblies, subassemblies, and associated repair parts; performs technical edit, stock accounting, and application by researching catalogs, manuals, publications, parts lists, microfiche, and other means; visually inspects, verifies, and classifies incoming equipment and repair parts; maintains locator card system; participates in location surveys and inventories; performs as equipment maintenance clerk; codes equipment and maintenance data for automated data processing application. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; reviews requests for major and controlled items; visually inspects salvage material to determine proper disposition; utilizes automatic data processing to assist in management. *Skill Level 30:* Able to perform the duties required for Skill Level 20; plans and organizes major end items and repair parts supply operations; organizes, plans, and controls warehouse and storage activities; directs personnel in supply/inventory control management functions; determines repair part requirements and space allocation; conducts inspections and analyzes supply activities for efficiency; determines material handling equipment requirements; conducts on-the-job training. *Skill Level 40:* Performs the duties required for Skill Level 30 and serves as commodity manager; assists in appraisal of supply operations and training; performs inspections and provides technical assistance.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 2 in office machines, and 2 in parts management, for a total of 7 semester hours (6/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 3 in parts management, 2 in inventory control, and 2 in office machines, for a total of 13 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in warehouse practices, 3 in parts management, 3 in record keeping, 2 in inventory control, 2 in office machines, and 2 in office procedures, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in parts management, 3 in record keeping, 3 in personnel supervision, 2 in inventory control, 2 in office machines, and 2 in office procedures, for a total of 18 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in parts management, 3 in record keeping, 3 in personnel supervision, 3 for field experience in management, 2 in inventory control, 2 in office machines, and 2 in office procedures, for a total of 21 semester hours (6/76).

MOS–76J–001

MEDICAL SUPPLYMAN

76J10
76J20
76J30
76J40

Exhibit Dates: 3/76–2/77.

Career Management Field: 76 (Supply).

Description

Summary: Requests, receives, inventories, stores, preserves, issues salvage, controls stock, and accounts for medical supplies and equipment. *Skill Level 10:* Transports and handles medical supplies and equipment; inventories medical supplies and assists in financial inventory accounting; determines requisition objectives and verifies quantities and quality of materials received; performs in-storage care and preservation of medical supplies, including special procedures for handling pharmaceuticals, biologicals, blood fractions, and medicines; assists in medical materiel serviceability inspections; interprets medical terminology and vocabulary directly related to supply functions; operates office machines; keeps medical supply files and records. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises a small medical supply, stock control, or storage activity; plans medical supply and equipment operations; assigns duties, plans workloads, and instructs personnel in work techniques and procedures; directs inventory management activities; controls stock rotation and establishes delivery control activities; reviews and prepares technical, personnel, and administrative reports on medical supply activities. *Skill Level 40:* Performs the duties required for Skill Level 30 and supervises a medium-sized medical stock control, or storage activity.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 2 in office machines, and 1 in medical terminology, for a total of 6 semester hours (6/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in office machines, and 1 in medical terminology, for a total of 9 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in inventory control, 2 in office machines, 2 in office procedures, and 1 in medical terminology, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in warehouse practices, 3 in record keeping, 2 in inventory control, 2 in office machines, 2 in office procedures, and 1 in medical teminology, for a total of 16 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 3 in personnel supervision, 3 for field experience in management, 2 in inventory control, 2 in office machines, 2 in office procedures, and 1 in

medical terminology, for a total of 19 semester hours (6/76).

MOS–76J–002

MEDICAL SUPPLYMAN

76J10
76J20
76J30
76J40
76J50

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–76P–001

STOCK CONTROL SUPPLYMAN

76P10
76P20
76P30
76P40

Exhibit Dates: 3/76–Present.

Career Management Field: 76 (Supply and Service), *subfield* 761 (Supply).

Description

Summary: Performs inventory management functions and stock record keeping functions pertaining to the receipt, distribution, and issue of material. *Skill Level 10:* Prepares stock records and other documents, such as inventory, stock control and accounting sheets; operates office machines; prepares and processes requisitions, stockage listings, and receipt documents; performs financial inventory accounting administration functions; performs accounting and sales functions; interprets supply documents in an automated environment for input and output processing. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises medium-sized stock control and accounting activity, sales activity, or property disposal activity; plans and organizes work schedules and instructs subordinates; plans and organizes operations to conform with work standards and quality control requirements; conducts on-the-job training; assists in all aspects of purchasing and contracting activities and acts as contracting officer; serves as imprest fund custodian cashier. *Skill Level 40:* Performs the duties required for Skill Level 30 and supervises a large stock control and accounting activity, sales activity, or property disposal activity.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 2 in office machines, and 2 in retail sales, for a total of 7 semester hours (6/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in office machines, 2 in retail sales, and 2 in business mathematics, for a total of 12 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in office machines, 2 in retail sales, 2 in business mathematics, 2 in inventory control, and 2 in office procedures, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in warehouse practices, 3 in record keeping, 2 in office machines, 2 in retail sales, 2 in business mathematics, 2 in inventory control, and 2 in office procedures, for a total of 19 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in personnel supervision, 3 in warehouse practices, 3 in record keeping, 2 in office machines, 2 in retail sales, 2 in business mathematics, 2 in inventory control, and 2 in office procedures, for a total of 22 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 2 for field experience in sales management (6/76).

MOS–76S–001

VEHICLE MATERIEL SUPPLY SPECIALIST (AUTOMOTIVE REPAIR PARTS SPECIALIST)

76S20
76S40

Exhibit Dates: 10/73–2/76. (Effective 3/76, MOS 76S was discontinued and its functions were incorporated into MOS 76D, Materiel Supplyman).

Career Management Field: 76 (Supply).

Description

Summary: Receives, stores, and issues vehicle repair parts. NOTE: Able to perform the duties required for 76P20 (Stock Control and Accounting Specialist). *Skill Level 20:* Identifies automotive repair parts by illustrations and number; maintains inventory records; determines the need to replenish stock items and prepares requisitions for replacement. *Skill Level 40:* Able to perform the duties required for Skill Level 20; organizes, plans, and supervises activities related to the storage of automotive repair parts; normally supervises more than 10 subordinates; conducts on-the-job training; modifies warehouse and storage facilities for maximum utilization of space; complies with regulations and directives pertaining to inventory accounting, stock funding, reclamation, salvage, and disposal.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in automotive parts inventory and supply and 1 in technical records and publications (3/75).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in office procedures, 3 in business communications, 2 in automotive parts inventory and supply, and 2 in automotive parts management, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in automotive parts management, 2 in office management, 2 in personnel supervision, and 2 in business communications, for a total of 8 semester hours (3/75).

MOS–76V–001

STORAGE SUPPLYMAN

76V10
76V20
76V30
76V40

Exhibit Dates: 3/76–Present.

Career Management Field: 76 (Supply and Service), *subfield* 761 (Supply).

Description

Summary: Stores and issues material; performs receipt, administrative process, inspection, and packing and shipment of material. *Skill Level 10:* Reviews and verifies shipping documents and unit of issue; inspects incoming and outgoing supplies and equipment for damage; operates materials handling equipment; performs inventories and location surveys; selects supplies and/or equipment for issue or shipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; plans, organizes, and controls warehousing, packing, and crating activities; applies management principles; compiles statistical warehouse data; determines requirements and requests, assigns, and controls use of warehouse facilities and equipment; supervises equipment storage, including document control and location inventories. *Skill Level 30:* Performs the duties required for Skill Level 20 and supervises a medium-sized material warehousing activity. *Skill Level 40:* Performs the duties required for Skill Level 30 and supervises a large material warehousing activity; conducts surveillance inspection of materials in storage.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse paractices (6/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, and 2 in inventory control, for a total of 8 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in inventory control, and 2 in office procedures, for a total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in warehouse practices, 3 in record keeping, 2 in inventory control, and 2 in office procedures, for a total of 13 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in inventory control, 2 in office procedures, and 2 in material management, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 for field experience in management, 3 in warehouse practices, 3 in record keeping, 2 in inventory control, 2 in office procedures, and 2 in material management, for total of 18 semester hours (6/76).

MOS–76W–001

PETROLEUM SUPPLY SPECIALIST (PETROLEUM STORAGE SPECIALIST)

76W20
76W40
76W50

Exhibit Dates: 10/73–8/76.

Career Management Field: 92 (Petroleum).

Description

Summary: Operates and maintains petroleum storage, dispensing, and distribution facilities and pipeline systems. *Skill Level 20:* Serves as a petroleum pump operator, tank farm attendant, pipeline patrolman, or cleaning and packaging specialist; cleans and fills petroleum containers; maintains pipeline systems, pressure reducing stations, and dispensing equipment, including booster, transfer, and main-line pumps; applies firefighting and fire prevention techniques; visually inspects outgoing products to insure proper quantity and packaging and to detect contamination or deterioration; gages storage tanks; makes temperature and volume conversions to account for and inventory petroleum products; takes samples for laboratory examination; loads, unloads, and cleans tank cars, tank trucks, and storage trucks. *Skill Level 40:* Able to perform the duties required

for Skill Level 20; supervises from 7 persons in a pump station crew to more than 49 in a pipeline crew; estimates requirements for personnel, storage space, and equipment; uses product cycles to minimize product contamination; performs quality surveillance procedures to determine causes of product contamination and to carry out petroleum reclamation and salvage; supervises petroleum dispatching through work assignments and review of work plans. *Skill Level 50:* Able to perform the duties required for 76W40 or 92C40 (Petroleum Laboratory Specialist); as the principle noncommissioned officer in a large petroleum operation, assists officers in the planning, coordination, and supervision of petroleum storage and distribution and in the appraisal of operations and training; supervises and inspects work performed by subordinate noncommissioned officers; collects and prepares material pertaining to petroleum operations and training; may serve as the first sergeant of a company, a mid-level managerial position involving personnel, supply, training, and inspection responsibilities.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in fire safety, 2 in basic mathematics, and 2 in pump maintenance, for a total of 6 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in human relations, 3 for field experience in management, and 3 in industrial safety, for a minimum total of 9 semester hours; and, *if the duty assignment was petroleum pipeline supervisor at pay grade E-6 or if pay grade E-7 was achieved,* 3 additional semester hours in personnel supervision and 2 in technical writing, for a total of 14 semester hours (6/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, 3 for field experience in management, 3 in introduction to management, 3 in industrial safety, 3 in office administration, 3 in record keeping, 3 in technical writing, and 2 in material management, for a total of 26 semester hours (6/76).

MOS–76W–002

PETROLEUM SUPPLY SPECIALIST

76W10
76W20
76W30
76W40
76W50

Exhibit Dates: 9/76–Present. Pending evaluation.

MOS–76X–001

SUBSISTENCE SUPPLYMAN

76X10
76X20
76X30
76X40

Exhibit Dates: 3/76–Present.

Career Management Field: 76 (Supply and Service), *subfield* 761 (Supply).

Description

Summary: Receives, stores, issues, distributes inventories, sells, and ships subsistence (food) supplies. *Skill Level 10:* Receives and checks accuracy of quantities of subsistence supplies received; checks orders received for quality and segregates damaged supplies; stores supplies and maintains locator records; issues stock and performs inventories; performs stock control and accounting, and requests supplies to maintain stock levels; operates office machines and material handling equipment; checks quality and quantity of outgoing supplies and prepares shipment; performs operator maintenance and service on equipment; distributes field rations; performs commissary store functions including stocking, pricing, and inventory; maintains supply records and files. *Skill Level 20:* Able to perform the duties required for Skill Level 10; supervises food distribution and small commissary operations; plans and coordinates supply activities; directs supply personnel; applies principles of automatic data processing to supply system; conducts on-the-job training; checks accuracy of work; inspects warehouse cooler and freezer units; recommends corrective action and improved methods in the supply procedures; administers stock control; performs sales functions in commissary stores; analyzes statistical data and reports. *Skill Level 30:* Performs the duties required for Skill Level 20 and supervises a medium-sized commissary or food supply activity. *Skill Level 40:* Performs the duties required for Skill Level 30 and supervises a large commissary or food supply activity; interprets and uses annual food plans; manages food reserve stocks; insures compliance with food supply policies.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices and 2 in office machines, for a minimum total of 5 semester hours, and *if the duty assignment included commissary work,* 3 semester hours in retail sales, for a total of 8 semester hours (6/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in office machines, and 2 in business mathematics, for a minimum total of 10 semester hours, and *if the duty assignment included commissary work,* 3 semester hours in retail sales, for a total of 13 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in warehouse practices, 3 in record keeping, 2 in office machines, 2 in business mathematics, 2 in inventory control, and 2 in office procedures, for a minimum total of 14 semester hours, and *if the duty assignment included commissary work,* 3 semester hours in retail sales, for a total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in warehouse practices, 3 in record keeping, 3 in personnel supervision, 2 in office machines, 2 in business mathematics, 2 in inventory control, and 2 in office procedures, for a minimum total of 17 semester hours, and *if the duty assignment included commissary work,* 3 semester hours in retail sales, for a total of 20 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in warehouse practices, 3 in record keeping, 3 in personnel supervision, 2 in office machines, 2 in business mathematics, 2 in inventory control, and 2 in office procedures, for a minimum total of 20 semester hours, and *if the duty assignment included commissary work,* 3 semester hours in retail sales, for a total of 23 semester hours (6/76).

MOS–76Y–001

UNIT ORGANIZATION SUPPLYMAN

76Y10
76Y20
76Y30
76Y40

Exhibit Dates: 3/76–Present.

Career Management Field: 76 (Supply and Service), *subfield* 761 (Supply).

Description

Summary: Supervises or performs duties connected with the requisition, receipt, storage, accounting, and issuance of organizational, installation, and individual supplies. *Skill Level 10:* Serves as unit supply clerk; prepares supply records and forms, inventory control listings and count cards, and inventory adjustment reports; practices safety in storage operations; loads and unloads supplies and operates forklifts; operates office machines and keeps administrative files; performs salvage operations; uses supply publications; prepares clothing for issue and processes laundry; determines supply needs by consulting property books records; maintains the security of small arms. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; establishes priorities and assigns work; conducts on-the-job training; maintains automated supply accounting system; computes supply usage factors; supervises the issue, handling, storage, and security of sensitive items and small arms. *Skill Level 30:* Performs the duties required for Skill Level 20 and supervises personnel in a large supply activity (serving over 450 military personnel); trains and supervises personnel in external load rigging for rotary wing aircraft. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves on the staff at a battalion headquarters; analyzes statistical data to ascertain trends, conformity to standards, and efficiency; improves supply methods and procedures; coordinates supply activities with other units.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 3 in office procedures, 2 in office machines, and 1 in typing, for a total of 9 semester hours (6/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 3 in office procedures, 3 in inventory control, 2 in office machines, and 1 in typing, for a total of 12 semester hours (6/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 in human relations, 3 in record keeping, 3 in office procedures, 3 in inventory control, 2 in office machines, and 1 in typing, for a total of 18 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in personnel supervision, 3 in human relations, 3 in record keeping, 3 in office administration, 3 in inventory control, 2 in office machines, and 1 in typing, for a total of 21 semester hours (6/76).

MOS–76Z–001

SENIOR SUPPLY SERGEANT

76Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 76 (Supply and Service), *subfield* 760 (Supply General).

Description

Able to perform the duties required for Skill Level 40 of any MOS in the supply career management field (76); serves as a mid-level manager, supervising personnel engaged in large supply and service operations such as laundry, bath, graves registration, decontamination, transportation, property disposal, medical supply, commissary operations, and resupply by airdrops; analyzes reports and appraises supply operations and training; manages stock control and accounting, procurement, and inventory control; supervises storage, receiving, issue, materials handling, supply locator systems, facility safety, and supply security operations; coordinates supply support data systems, salvage operations, and repair parts supply procedures; supervises the preparation of operating instructions, reports, and related technical material; recommends units for assignment to support special operations.

Recommendation

In the lower-division baccalaureate/associate degree category, 3 semester hours in record keeping, 3 in office administration, 3 in personnel supervision, 3 in inventory control, 3 in office procedures, 3 in warehouse practices, 3 in business mathematics, 2 in office machines, and 1 in typing, for a total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in records administration, 3 in human relations, and 6 for field experience in management, for a total of 18 semester hours (6/76).

MOS–81A–001

CONSTRUCTION DRAFTSMAN

81A10

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 81A was discontinued and its functions were incorporated into 81B20, Construction Draftsman, 81C10, Cartographer, and 81E10, Illustrator.)

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 811 (Drafting).

Description

Performs general drafting duties; traces drawings, organizational charts and diagrams, posters, and other drafting work; uses mathematics when applicable; utilizes basic drafting tools, instruments, and materials; lays out drawings to scale, applying dimensions, detail, and conventional symbols; letters free hand or with mechanical guides; receives, stores, and manages supplies and other materials.

Recommendation

In the vocational certificate category, 10 semester hours in basic drafting (12/75).

MOS–81B–001

CONSTRUCTION DRAFTSMAN

81B20

81B40

Exhibit Dates: 10/73–9/74.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Summary: Prepares working drawings for the construction field. *Skill Level 20:* Prepares orthographic drawings (shape description only); prepares maps and plot plans from surveyor's notes. NOTE: May have progressed to 81B20 from 81A10 (General Draftsman). *Skill Level 40:* Able to perform the duties required for Skill Level 20; plans, lays out, and completes working drawings for the construction field; supervises 14 or more personnel engaged in the same activities.

Recommendation, Skill Level 20

In the vocational certificate category, 10 semester hours in construction drafting. In the lower-division baccalaureate/associate degree category, 3 semester hours in construction drafting (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 30 semester hours in construction drafting. In the lower-division baccalaureate/associate degree category, 8 semester hours in construction drafting, 3 in algebra, 3 in trigonometry, 2 in communication skills, and 2 in personnel supervision, for a total of 18 semester hours (2/75).

MOS–81B–002

CONSTRUCTION DRAFTSMAN

81B20

Exhibit Dates: 10/74–Present.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Prepares working drawings for the construction field; prepares orthographic drawings (shape description only); prepares maps and plot plans from surveyor's notes. NOTE: May have progressed to 81B20 from 81A10 (General Draftsman).

Recommendation

In the vocational certificate category, 10 semester hours in construction drafting. In the lower-division baccalaureate/associate degree category, 3 semester hours in construction drafting (2/75).

MOS–81C–001

CARTOGRAPHIC SPECIALIST
(CARTOGRAPHIC DRAFTSMAN)

81C20

81C30

81C40

81C50

Exhibit Dates: 10/74–2/77.

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 811 (Drafting).

Description

Summary: Supervises or performs cartographic drafting activities, compilation or revision of planimetric and topographic maps, or construction of scale models of terrain. *Skill Level 20:* Draws or scribes cultural, topographic, hydrographic, or other features on drawings, transparent overlays, and scribing surfaces for reproduction of maps. NOTE: May have progressed to 81C20 from 81A10 (General Draftsman). *Skill Level 30:* Able to perform the duties required for Skill Level 20; compiles and revises planimetric and topographic maps. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises cartographic drafting, map compiling, or model making activities. NOTE: May have progressed to 81C40 from 81C20, 81C30, 81E20 (Illustrator), or 81Q20 (Terrain Intelligence Analyst). *Skill Level 50:* Able to perform the duties required for Skill Level 40; plans, coordinates, administers, and supervises activities pertaining to the compiling, preparation, and revision of topographic and hydrographic maps from aerial photographs and other data. NOTE: May have progressed to 81C50 from 81C40 or 81Q20 (Terrain Intelligence Analyst).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in cartography, 3 in mechanical drawing, and 3 in aerial photographic interpretation, for a total of 12 semester hours (12/75).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in cartography, 4 in photogrammetry, 3 in mechanical drawing, and 3 in aerial photographic interpretation, for a total of 16 semester hours (12/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in cartography, 4 in photogrammetry, 3 in mechanical drawing, 3 in aerial photographic interpretation, and 3 in introduction to management, for a total of 19 semester hours (12/75).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 6 semester hours in cartography, 4 in photogrammetry, 3 in mechanical drawing, 3 in aerial photographic interpretation, 3 in introduction to management, 3 in personnel supervision, and 3 for field experience in management, for a total of 25 semester hours (12/75).

MOS–81C–002

CARTOGRAPHER

81C10

81C20

81C30

81C40

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–81E–001

ILLUSTRATOR

81E20

Exhibit Dates: 10/73–2/77.

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 811 (Drafting).

Description

Illustrates, drafts, and lays out illustrations for posters, graphs, charts, tests, training aids, and for other purposes; interprets basic materials furnished for final illustration; measures model dimensions; appropriately lays out work; makes illustrations with inks, charcoal, oil paints, water colors, pencils, crayons, and pastels, using drafting instruments and other artist materials; selects appropriate materials and instruments and mixes colors; designs, executes, and prepares freehand and mechanical drawings; mounts and retouches photographs and drawings; prints and letters signs; maintains illustration equipment.

Recommendation

In the lower-division baccalaureate/associate degree category, 2 semester hours in mechanical drawing, 2 in commercial art, and 2 in principles of illustration, and additional credit on the basis of institutional evaluation, for a minimum total of 6 semester hours (12/75).

MOS–81E–002

ILLUSTRATOR

81E10

81E20

81E30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–81Q–001

TERRAIN INTELLIGENCE ANALYST
(TERRAIN ANALYST)

81Q20

Exhibit Dates: 10/73–2/77. (Until 10/74, this MOS was designated 51Q20, Terrain Analyst; effective 3/77, MOS 81Q was discontinued and its functions were incorporated into MOS 81C, Cartographer.)

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 811 (Drafting).

Description

Compiles, analyzes, and disseminates current and accurate data pertaining to a geographical areas or region, including natural terrain features, population and industrial centers, transportation networks, and utility systems, for use in mapping, construction, and other operations; interprets conditions of travel and land use; interprets studies and reports as they relate to terrain and man-made features; coordinates and participates in the preparation of technical and special reports and map overlays; applies engineering techniques in the analysis of aerial photographs and other data; knows the principles of map compilation and interpretation; keeps records and files of completed studies; keeps data current through consultation with pertinent government agencies.

Recommendation

In the lower-division baccalaureate/associate degree category, 8 semester hours in land use planning, 6 in aerial photographic interpretation, 3 in geography, 3 in terrain analysis, 3 in cartography, and 1 in geology, for a total of 24 semester hours. In the upper-division baccalaureate category, 8 semester hours in land use planning and 3 in aerial photographic interpretation. In the graduate category, 6 semester hours in research techniques in geography (12/75).

MOS–81Z–001

TOPOGRAPHIC ENGINEERING SUPERVISOR

81Z50

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–82A–001

RODMAN AND TAPEMAN

82A10

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 82A was discontinued and its functions were incorporated into 82B20, Construction Surveyor, and 82D10, Topographic Surveyor.)

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 812 (Surveying).

Description

Under supervision, assists topographic and construction survey party personnel in making land surveys and establishing reference points; assists survey party chief by removing minor terrain obstacles, carrying equipment, marking reference points and recording readings; aligns and positions stadia, level rods, and other target markers when directed by hand and/or verbal instructions; locates old and new markers; measures linear distance with tapes and angles of slope with hand level; reads verviers of targets; performs preventive maintenance on pertinent equipment.

Recommendation

In the vocational certificate category, 1 semester hour in surveying (12/75).

MOS–82B–001

CONSTRUCTION SURVEYOR

82B20

82B40

Exhibit Dates: 10/73–Present.

Career Management Field: 51 (General Engineering), *subfield* 511 (Construction Engineering).

Description

Summary: Supervises or establishes relative position of points on earth's surface for use in construction projects. *Skill Level 20:* Reads maps and construction specifications; operates surveying instruments and equipment, such as alidade, plane table, level, transit, and theodolite; employs such instruments as aneroid barometer and compass; records observations and makes minor computations; makes mathematical computations involving use of formulas; determines azimuths and astronomical observations of the sun or polaris; makes measurements and sets appropriate reference points; maintains surveying equipment and instruments. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises and instructs survey party personnel; responsible for initial study of construction area; assigns and coordinates work and manages its progress; supervises on-the-job training.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic land surveying (12/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in basic and advanced land surveying, 3 in introduction to management, and 3 for field experience in management, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in introduction to management and 3 for field experience in management (12/75).

MOS–82C–001

ARTILLERY SURVEYOR

82C10

82C20

82C40

Exhibit Dates: 10/73–8/76.

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 172 (Target Acquisition).

Description

Summary: Engages in surveying activities. *Skill Level 10:* Marks survey stations; utilizes range poles and target sets; assists in performance of preventive maintenance on surveying instruments and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as chief of a surveying party; uses basic algebraic and trigonometric skills; uses tape, level, transit, and theodolite to perform surveys; computes azimuths and distances, coordinates, altimetric and trigonometric heights from field data; makes traverse computations; uses the triangulation method of survey and computations. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises a survey party; reviews survey data.

Recommendation, Skill Level 10

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (2/75).

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in algebra and 1 in trigonometry. In the lower-division baccalaureate/associate degree category, 8 semester hours in surveying, 2 in algebra, and 1 in trigonometry, for a total of 11 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in algebra and 1 in trigonometry. In the lower-division baccalaureate/associate degree category, 8 semester hours in surveying, 2 in algebra, 1 in trigonometry, 3 in personnel supervision, and 3 in communication skills, for a total of 17 semester hours (2/75).

MOS–82C–002

FIELD ARTILLERY SURVEYOR

82C10

82C20

82C30

82C40

Exhibit Dates: 9/76–Present.

Career Management Field: 13 (Field Artillery), *subfield* 132 (Field Artillery Target Acquisition Operations).

Description

Summary: Engages in surveying activities. *Skill Level 10:* Determines distance between survey stations; marks survey stations; operates and maintains survey equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; applies knowledge of basic algebra, basic geometry, and trigonometric functions and logarithms; computes azimuth and distance, coordinates, altimetric and trigonometric heights, and astronomic azimuths from field data. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises a survey party; selects starting station and method of survey; reviews survey data for accuracy; supervises maintenance of survey party equipment; instructs in survey procedures and techniques. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises and coordinates operations of several survey parties; prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to maps and air photos and credit in surveying on the basis of institutional evaluation (4/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to maps and air photos, 2 in algebra, 1 in trigonometry, and 8 in surveying, for a total of 13 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to maps and air photos, 2 in algebra, 1 in trigonometry, 8 in surveying, 2 in communication skills, 2 in human relations, 2 in personnel supervision, and 3 for field experience in management, for a total of 22 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 2 semester hours in introduction to maps and air photos, 2 in algebra, 1 in trigonometry, 8 in surveying, 3 in communication skills, 3 in human relations, 3 in personnel supervision, and 3 for field experience in management, for a total of 25 semester hours (4/77).

MOS–82D–001

TOPOGRAPHIC SURVEYOR

82D20

82D30

82D40

82D50

Exhibit Dates: 10/73–2/77.

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 812 (Surveying).

Description

Summary: Supervises or conducts surveys and establishes relative position of points on earth's surface to provide control data for map making. *Skill Level 20:* Conducts topographic surveys; interprets maps and aerial photographs; operates surveying instruments and equipment such as alidade, plane tables, level, transit, theodolite, compass, and aneroid barometer; shoots routine azimuth shots on stellar bodies; determines exact location and measurements of points, lines, elevations, areas, and contours of earth's surface; records observations, makes minor computations, and prepares diagrams and map overlays for presentation of survey findings; makes mathematical computations involving logarithms and trigonometric principles and standard topographic survey formulas; consolidates and prepares topographic survey reports; inspects, cleans, lubricates, and adjusts surveying instruments and equipment. NOTE: May have progressed to 82D20 from 82A10 (Rodman and Tapeman). *Skill Level 30:* Able to perform the duties required for Skill Level 20; conducts geodetic surveys; operates, uses, and performs preventive maintenance on topographic surveying instruments capable of first order accuracy; sets up, calibrates, and employs such instruments as Wild T–3 or T–4 Theodolites, Bamberg Broken Telescope Transit, precise chronometer, and chronograph or oscillograph in combination with astro amplifier and other timing instruments; prepares for and makes all observations for precise determination of azimuth or geodetic position; observes stars for longitude, latitude, and azimuth determination; interprets and records timing data for topographic computers. NOTE: May have progressed to 82D30 from 82D20, 82E20 (Topographic Computer), or 41B20 (Topographic Instrument Repairman). *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises topographic surveying activities; studies and learns capabilities and limitations of all types of topographic survey equipment and systems; studies astronomical publications, such as star lists and ephemeris; determines composition and operational procedures and techniques of topographic survey parties; determines application of field survey activities to photogrammetric requirements; utilizes organic topographic stereophotogrammetric instruments; prepares records depicting type of survey, type of station, reference points used, and description of terrain; plans training and instructs subordinate personnel in all phases of topographic surveying; prepares and reviews technical, personnel, and administrative reports. NOTE: May have progressed to 82D40 from 82D20, 82D30, 82E20 (Topographic Computer), or 41B20 (Topographic Instrument Repairman). *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as the principal noncommissioned officer in a topographic surveying company; assists in planning, coordinating, and supervising all company activities; advises company commander on all personnel matters; provides subordinate supervisors with instructions; conducts training and inspections. NOTE: May have progressed to 82D50 from 82D40, 82E40 (Topographic Computer), or 82B40 (Construction Surveyor).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in algebra, 3 in trigonometry, 3 in geometry, 3 in sperical geometry, 3 in physics (optics), 3 in surveying, 3 in geodetic surveying, and 3 in engineering computations, for a total of 24 semester hours (12/75).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 20 plus 6 additional semester hours for field experience in surveying, for a total of 30 semester hours (12/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category extending into the upper-division baccalaureate category, 15 semester hours for field experience in surveying, 9 semester hours in engineering computations, 3 in algebra, 3 in trigonometry, 3 in geometry, 3 in sperical geometry, 3 in physics (optics), 3 in surveying, 3 in geodetic surveying, 3 in advanced surveying, 3 in advanced geodetic surveying, 3 in technical writing, 3 in personnel supervision, and 3 in project management, for a total of 60 semester hours (12/75).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category extending into the upper-division baccalaureate category, 23 semester hours for field experience in surveying, 12 in engineering computations, 8 in project management, 5 in project layout, 6 in personnel supervision, 6 in advanced surveying, 3 in algebra, 3 in trigonometry, 3 in geometry, 3 in spherical geometry, 3 in physics (optics), 3 in surveying, 3 in geodetic surveying, 3 in advanced geodetic surveying, 3 in technical writing, and 3 in introduction to management, for a total of 90 semester hours (12/75).

MOS–82D–002

TOPOGRAPHIC SURVEYOR

82D10
82D20
82D30
82D40

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–82E–001

TOPOGRAPHIC COMPUTER

82E20
82E30
82E40

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 82E was discontinued and its functions were incorporated into MOS 82D, Topographic Surveyor.)

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 812 (Surveying).

Description

Summary: Supervises or performs geodetic or topographic computations. *Skill Level 20:* Performs topographic computations, such as determining exact positions of points and distances between points under various map construction systems, transforming geographic coordinates to linear distances, and computing taped and stadia traverse and baseline measurements using natural and log functions of angles; studies assembled data compiled from surveyor's notes; determines appropriate algebraic formula and method of computation to be used; makes projection, grid, and triangulation computations by application of geometry to notes from astrological observations; performs fundamental computations and adjustments for third and lower order triangulation, traverse, vertical control, and special surveying schemes; performs fundamental computations involved in construction of military and geographic grids for maps; performs computations required for third and lower order astronomic azimuth and position observations, and solar observations; performs conversion computations for grid and geographic coordinates. NOTE: May have progressed to 82E20 from 82A10 (Rodman and Tapeman). *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as geodetic computer; measures time, records time values by numerical and graphical means, and employs time data in making first order computations; computes azimuth and length of long lines (over 250 miles), and computes transformation of coordinates from one grid zone to another adjacent or more distant zone; performs LaPlace azimuth computations in addition to all common astronomical computations involving application of spherical trigonometry. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; serves as chief topographic computer or as intelligence sergeant; coordinates surveying and computing activities, and performs related administrative duties; collects, prepares, and distributes material and data on intelligence matters, with special emphasis on intelligence matters peculiar to topographic operations; assigns work to subordinate personnel and conducts briefings.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in algebra, 3 in trigonometry, 3 in geometry, 3 in spherical geometry, 3 in statistics, 3 in surveying, 3 in geodetic surveying, and 3 in engineering computations, for a total of 24 semester hours (12/75).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 20 plus 6 additional semester hours for field experience in engineering, for a total of 30 semester hours (12/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category extending into the upper-division baccalaureate category, 15 semester hours for field experience in engineering, 9 in engineering computations, 3 in algebra, 3 in trigonometry, 3 in geometry, 3 in spherical geometry, 3 in statistics, 3 in surveying, 3 in geodetic surveying, 3 in advanced surveying, 3 in advanced geodetic surveying, 3 in technical writing, 3 in personnel supervision, and 3 in project management, for a total of 60 semester hours (12/75).

MOS–83A–001

PRINTER'S APPRENTICE

83A10

Exhibit Dates: 10/73–9/74. (Effective 10/74, MOS 83A was discontinued and its functions were incorporated into MOS 83F, Offset Pressman.)

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 813 (Map Reproduction and Printing).

Description

Assists in printing operations; installs and removes keybands and paper rollers and threads paper ribbon to monotype machines; operates and maintains multilith, bookbinding, photocopy, and photostat machines; sets up hand and machine cast type and arranges type cuts, spacers, quoins, and liners within chase; assembles and collates materials; cleans ink plates and press rollers; cuts and trims materials to required shapes and sizes; adjusts and sets paper cutting, perforating, drilling, punching, stitching, and folding machines; checks all materials printed for neatness and accuracy.

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in offset press operation (2/75).

MOS–83D–001

PROCESS PHOTOGRAPHER

83D20

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 83D was discontinued and its functions were

incorporated into MOS 83E, Photo and Layout Specialist.)

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 813 (Map Reproduction and Printing).

Description

Operates a process camera and develops film to produce line, half tone, and continuous tone negatives for offset printing; demonstrates understanding of darkroom chemistry, camera techniques, use of camera controls, proper settings of lens, use of filters, and selection of films. NOTE: May have progressed to 83D20 from 83A10 (Printer's Apprentice), or 83F10 (Offset Pressman).

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in process camera operation and 6 for field experience in graphic arts (5/76).

MOS–83E–001

PLATEMAKER

83E20

Exhibit Dates: 10/73–2/77.

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 813 (Map Reproduction and Printing).

Description

Prepares and processes lithographic plates for use in offset printing, performing as a journeyman platemaker; knows procedures for single and multiple layouts, bookwork double burns, multiple-color systems, and register systems; works with presensitized and wipe-on plates. NOTE: May have progressed to 83E20 from 83A10 (Printer's Apprentice), or 83F10 (Offset Pressman).

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in platemaking for offset printing and 3 in stripping for offset printing (5/76).

MOS–83E–002

PHOTO AND LAYOUT SPECIALIST

83E10

83E20

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–83F–001

OFFSET PRESSMAN

83F10

83F20

83F40

Exhibit Dates: 10/74–2/77.

Career Management Field: 82 (Topographic Engineering and Map Reproduction), *subfield* 813 (Map Reproduction and Printing).

Description

Summary: Operates duplicating and offset presses and supervises the operation of a pressroom. *Skill Level 10:* As a pressroom helper, assists in printing operations, including performing preventive maintenance on and operating multilith and photocopying equipment, storing supplies, loading and stacking paper, cleaning work area and equipment. *Skill Level 20:* Operates offset press to print multicolor work on light or heavy paper stock, using feeder, delivery, dampening, and inking assemblies; operates folding machines (16-page unit) and stitching machines; observes safety precautions and trains helpers. *Skill Level 40:* Able to perform the duties required for Skill Level 20; as a pressroom foreman, supervises multilith and offset press operators and bindery activities; schedules work and evaluates supply needs; coordinates pressroom printing and bindery activities; supervises equipment maintenance; explains and demonstrates the operation of lithograph and multilith machines and bindery techniques.

Recommendation, Skill Level 10

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (5/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in offset press operation, 6 for field experience in graphic arts, 3 in platemaking, and 2 in ink and color, for a total of 17 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in offset press operation, 6 for field experience in graphic arts, 3 in platemaking, 2 in ink and color, 3 in human relations, 3 in personnel supervision, and 3 in printing management for a total of 26 semester hours (5/76).

MOS–83F–002

PHOTOLITHOGRAPHER

83F10

83F20

83F30

83F40

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–83Z–001

PHOTOLITHOGRAPHY CHIEF

83Z40

83F50

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 83Z was discontinued and its functions were incorporated into 81Z50, Topographic Engineering Supervisor, and into 83F30 and 83F40, Photolithographer.)

Career Management Field: 81 (Topographic Engineering and Map Reproduction), *subfield* 813 (Map Reproduction and Printing).

Description

Summary: Supervises process photography, photocopy, platemaking, and offset press activities. *Skill Level 40:* Able to perform the duties required for 83D20 (process photographer), 83E20 (platemaker), or 83F20 (offset pressman); serving as the production manager of a printing plant, supervises photolithography activities; sets work priorities; schedules, routes, and dispatches materials; implements quality control and safety procedures; makes oral and written administrative reports on personnel and activities. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as first sergeant of a company, supervising as many as 200 persons; assists in planning, coordinating, and supervising all company activities; advises superiors on all personnel matters; holds meetings to disseminate instructions and information to subordinate supervisors; supervises training activities. NOTE: May have progressed to 83Z50 from 83Z40 or 83F40 (Offset Pressman).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in offset press operation, 6 in process camera operation, 6 for field experience in graphic arts, 3 in platemaking, 3 in stripping for offset plates, 3 in ink and color, 3 in recordkeeping, 3 in human relations, 3 in personnel supervision, 3 in introduction to management, and 6 in printing management, for a total of 45 semester hours. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (graphic arts) (5/76).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in industrial arts education (graphic arts), 3 in industrial management, 3 in plant organization, and 6 for field experience in management, for a total of 15 semester hours (5/76).

MOS–84B–001

STILL PHOTOGRAPHER

84B20

84B40

Exhibit Dates: 10/73–2/77.

Career Management Field: 72 (Communications and Audio Visual), *subfield* 722 (Audio Visual).

Description

Summary: Takes still photographs for news releases, publications, and identification, and for medical training, historical, and scenic purposes; performs preventive maintenance on photographic equipment; takes photos from moving and fixed positions; uses aerial cameras. *Skill Level 20:* Arranges subject matter for proper photographic emphasis; selects appropriate camera, film, and accessory equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises still photographers and motion picture cameramen; determines the quantity, types, and technical details of photographs to be taken; establishes work priorities and schedules; critiques completed work, advising on technical and artistic deficiencies; corrects faulty work practices of subordinates by instruction and demonstration of proper techniques; prepares technical and administrative reports. NOTE: May have progressed to 84B40 from 84B20 or 84C20 (Motion Picture Photographer).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in still photography (2/75).

Recommendation, Skill Level 40

In the vocational certificate category, 9 semester hours in still photography. In the lower-division baccalaureate/associate degree category, 9 semester hours in still photography, 3 in personnel management, and 3 in technical writing, for a total of 15 semester hours (2/75).

MOS–84B–002

STILL PHOTOGRAPHIC SPECIALIST

84B10

84B20

84B30

84B40

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–84C–001

MOTION PICTURE PHOTOGRAPHER

84C20

Exhibit Dates: 10/73–2/77.

Career Management Field: 72 (Telecommunications and Audio Visual), *subfield* 722 (Audio-Visual).

Description

Takes aerial photographs and motion pictures; performs preventive maintenance on photographic equipment; operates equipment and coordinates the shooting of documentary, training, or newsreel films.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in film production, 3 in basic photography, and 3 in cinematic techniques, for a total of 12 semester hours (5/76).

MOS–84C–002

MOTION PICTURE SPECIALIST

84C10

84C20

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–84D–001

AUDIO SPECIALIST

84D20

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 84D was discontinued and its functions were incorporated into MOS 84C, Motion Picture Specialist, and MOS 84F, Audio/TV Specialist.)

Career Management Field: 72 (Telecommunications and Audio Visual), *subfield* 722 (Audio Visual).

Description

Performs preventive and routine maintenance on audio equipment utilized in radio, television, and motion picture productions; determines the sound needs for a given production situation; sets up and operates the necessary audio equipment.

Recommendation

In the lower-division baccalaureate/associate degree category, 4 semester hours in sound techniques, 3 in sound recording, and 3 in radio production, for a total of 10 semester hours (5/76).

MOS–84E–001

TV CAMERAMAN

84E20

84E40

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 84E was discontinued and its functions were incorporated into MOS 84F, Audio/TV Specialist.)

Career Management Field: 72 (Telecommunications and Audio Visual), *subfield* 722 (Audio Visual).

Description

Skill Level 20: Operates and performs preventive maintenance on television cameras; sets up camera and associated equipment; knows basic video techniques. *Skill Level 40:* Able to perform the duties required for Skill Level 20; serves as a senior television cameraman; supervises 3 to 6 television cameramen; coordinates work with other television specialists and directorial personnel; instructs camera crew in proper camera techniques; evaluates technical, artistic, and mechanical composition of camera work.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in studio techniques and 6 for a television workshop (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in studio techniques, 6 for a television workshop, and 3 in human relations, for a total of 12 semester hours (5/76).

MOS–84F–001

TV PRODUCTION SPECIALIST

84F20

84F40

Exhibit Dates: 10/73–2/77.

Career Management Field: 72 (Telecommunications and Audio Visual), *subfield* 722 (Audio Visual).

Description

Summary: Serves as producer or director in the preparation and production of live and recorded television presentations. *Skill Level 20:* Is responsible for preproduction planning, preparation, and coordination in the production of television programs, including scripting, rewriting, stage and lighting design, and collection of production materials. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises production personnel engaged in stage property, makeup, and other production and related technical activities; conducts rehearsals, telecasts, and recording sessions; views recordings to evaluate quality; assists in editing; prepares detailed reports on production activities. NOTE: May have progressed to 84F40 from 84F20, 84E40 (TV Cameraman), or 84D20 (Audio Specialist).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in television production, 3 in writing for instructional television, 3 in set design and lighting for television, and 3 for a television workshop, for a total of 15 semester hours (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in television production, 3 in writing for instructional television, 3 in set design and lighting for television, 3 for a television workshop, 3 in television directing, 3 in human relations, and 3 in personnel supervision, for a total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management, 3 in advanced television production, and 3 in advanced television directing, for a total of 9 semester hours (5/76).

MOS–84F–002

AUDIO/TV SPECIALIST

84F10

84F20

84F30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–84G–001

PHOTOGRAPHIC LABORATORY SPECIALIST

84G10

84G20

84G40

84G50

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 84G was discontinued and its functions were incorporated into MOS 84B, Still Photographic Specialist, and MOS 84Z, Public Affairs/Audio Visual Chief.)

Career Management Field: 72 (Telecommunications and Audio Visual), *subfield* 722 (Audio Visual).

Description

Summary: Develops black and white and color film and does contact and projection printing. *Skill Level 10:* Serves as a photographic laboratory helper-trainee, assisting Skill Level 20 personnel in the development of film by setting up and cleaning equipment, monitoring solution temperature, and handling film as instructed under close supervision. *Skill Level 20:* Processes black and white and color film, using a knowledge of photo-chemistry preparation, negative reading, paper selection, and cataloguing of negatives; processes motion picture film. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the operation of a photographic laboratory consisting of 5 to 25 subordinate photographic laboratory specialists; prepares work schedules and assigns laboratory tasks on a rotation basis to assure that subordinates obtain experience in all phases of photographic processing; evaluates work techniques, advises on technical problems, and conducts on-the-job training; requisitions supplies; prepares technical and administrative reports. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager, serving as first sergeant of a company; assists in planning, coordinating, and supervising all activities for a group of approximately 200 enlisted personnel; advises superiors on all personnel and operations matters; directs administrative activities; holds meetings with subordinate noncommissioned officers to provide them instructions and guidance; directs training; makes inspections.

Recommendation, Skill Level 10

No recommendation because of the limited technical nature of the skills, competencies, and knowledge (6/76).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in black and white processing and 3 in color processing. In the lower-division baccalaureate/associate degree category, 3 semester hours in black and white processing, 3 in color processing, 3 in advanced color processing, 3 in darkroom procedures, and 3 in motion picture processing, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in color processing techniques and 3 for field experience in photography (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in black and white processing and 3 in color processing. In the lower-division baccalaureate/associate degree category, 3 semester hours in black and white processing, 3 in color processing, 3 in advanced color processing, 3 in darkroom procedures, 3 in motion picture processing, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, and 6 for technical electives, for a total of 30 semester hours. In the upper-division baccalaureate category, 3 semester hours in color processing techniques, 6 for field experience in photography, and 3 in motion picture editing, for a total of 12 semester hours (6/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in color processing techniques, 6 for field experience in photography, 3 in motion picture editing, 3 in introduction to management, 3 for field experience in management, and 3 in industrial arts education (photography), for a total of 21 semester hours (6/76).

MOS–84T–001

TV/RADIO BROADCAST OPERATIONS CHIEF

84T40

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–84Z–001

PUBLIC AFFAIRS/AUDIO VISUAL CHIEF

84Z50

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–91A–001

MEDICAL CORPSMAN

91A10

Exhibit Dates: 10/73–9/74. (Effective 10/74, MOS 91A was discontinued and its functions were incorporated into 91B10, Medical Specialist.)

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Performs basic medical care and treatment; assists in setting up and moving emergency and temporary medical care facilities; performs duties related to emergency care and transportation of patients; performs general bedside nursing activities and procedures, including patient hygiene, collection and labeling of specimens, measurement and recording of patient vital signs, administration of treatments and simple medications as directed, and supervised physical and occupational therapeutic functions; assists in surgical procedures under supervision.

Recommendation

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 7 semester hours in fundamentals of nursing, 4 in emergency nursing procedures, 1 in communicable disease nursing, 1 in health science, and 1 in surgical nursing procedures, for a total of 14 semester hours (2/75).

MOS–91B–001

MEDICAL SPECIALIST

91B10
91B20
91B40

Exhibit Dates: 10/74–8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Supervises dispensary or field medical facilities; administers emergency treatment independently to battlefield casualties; assists with inpatient and outpatient care and treatment. *Skill Level 10:* Administers emergency treatment in the field; assists in transporting patients to medical facilities; performs general bedside nursing aide activities and procedures, including patient hygiene, collection and labeling of specimens, and measurement and recording of patient vital signs; performs field sanitation procedures, including water treatment and waste disposal. *Skill Level 20:* Able to perform the duties required for Skill Level 10; administers medications to relieve pain, prevent infection, or treat patients in shock; administers plasma, other blood derivatives, and vaccines; carries out medical asepsis, including disposal of infectious materials and wastes and decontamination of communicable disease area; assists physician in performing routine diagnostic tests, administering immunizations, and performing minor surgical procedures; sets up medical equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises paraprofessional medical service activities in fixed and tactical facilities; plans and organizes work schedules; assigns duties; instructs subordinate personnel in proper work techniques and procedures; reviews, consolidates, and prepares technical, personnel, and administrative reports; manages dispensaries; assists in supervising the setting up of medical units.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in emergency nursing procedures, 2 in first aid, and 1 in environmental health, for a total of 6 semester hours (3/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in emergency nursing procedures, 2 in first aid, 2 in environmental health, 1 in administration of medications, 1 in surgical nursing procedures, and 1 in communicable disease nursing, for a total of 10 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in emergency nursing procedures, 3 in patient care administration, 3 in personnel supervision, 2 in first aid, 2 in environmental health, 1 in administration of medications, 1 in surgical nursing procedures, and 1 in communicable disease nursing, for a total of 16 semester hours. In the upper-division baccalaureate category, *if the duty assignment was chief dispensary NCO/detachment sergeant at pay grade E–7*, 3 semester hours for field experience in management (3/76).

MOS–91B–002

MEDICAL SPECIALIST

91B10
91B20
91B30
91B40
91B50

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Supervises dispensary or field medical facilities; administers emergency medical treatment to battlefield casualties; assists with inpatient and outpatient care and treatment; assists with technical and administrative management of medical treatment facilities. *Skill Level 10:* Administers emergency treatment in the field; assists in transporting patients to medical facilities; performs general bedside nursing aide activities and procedures, including patient hygiene, collection and labeling of specimens, and measurement and recording of patient vital signs; performs field sanitation procedures, including water treatment and waste disposal. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; manages the care and transportation of casualties until admitted to a medical facility; screens patients during sick call; assists physicians in patient care and minor surgical procedures; reads and interprets medical records, patient charts, and diagnostic reports and makes entries as required. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises paraprofessional medical service activities in fixed and temporary facilities; plans and organizes work schedules; instructs subordinate personnel in first aid and patient care procedures; administers medications; prepares and conducts training programs; prepares technical and patient reports; coordinates activities of dispensary or clinic with other medical facility activities; maintains supply levels; supervises setting up of unit equipment and shelters. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises paraprofessional medical service activities in large fixed and mobile treatment facilities; coordinates activities of wards, clinics, and combined medical care facilities; maintains intelligence information and records; supervises paraprofessional medical field activities. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as the principal noncommissioned officer of staff sections, hospitals, other medical facilities, or service teams; serves on special boards and councils incident to medical service activities; supervises general administrative functions in a medical or treatment facility; supervises functional activities within the Army medical department or multifunctional medical staff activities; assists command surgeon in technical supervision of subordinate medical activities; evaluates personnel and the operational effectiveness of medical facilities; advises superiors on administrative medical matters; keeps official records and patient files; establishes reports control systems; prepares periodic and special reports concerning assigned personnel, patients, and medical care and treatment; makes recommendations for improving working procedures and conditions; evaluates training programs and requirements; determines requirements and adequacy of medical service supporting elements such as ambulance, supply, and transportation. NOTE: May have progressed to 91B50 from 91B40, 91D40 (Operating Room Specialist), 91F40 (Psychiatric Specialist), 91G40 (Behavioral Science Specialist), 91H40 (Orthopedic Specialist), 91J40 (Physical Therapy Specialist), 91L40 (Occupational Therapy Specialist), 91N40 (Cardiac Specialist), 91P40 (X-ray Specialist), 91Q40 (Pharmacy Specialist), 91U40 (Ear, Nose, and Throat Specialist), 91V40 (Respiratory Specialist), 91W40 (Nuclear Medicine Specialist), 91Y40 (Eye Specialist), or 42C40 (Orthotic Specialist).

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in emergency nursing procedures, 3 in first aid, and 1 in environmental health, for a total of 7 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in emergency nursing procedures, 3 in first aid, 3 in environmental health, and 3 for clinical experience, for a total of 12 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in emergency nursing procedures, 3 in first aid, 3 in environmental health, 3 for clinical experience, 1 in administration of medication, 1 in surgical nursing, and 1 in communicable disease nursing, for a total of 15 semester hours. In the upper-division baccalaureate category, 3 semester hours in patient care administration (6/77).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in emergency nursing procedures, 3 in first aid, 3 in environmental health, 3 for clinical experience, 3 in personnel supervision, 1 in administration of medication, 1 in surgical nursing, and 1 in communicable disease nursing, for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in patient care administration (6/77).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in emergency nursing procedures, 3 in first aid, 3 in environmental health, 3 for clinical experience, 3 in

personnel supervision, 1 in administration of medication, 1 in surgical nursing, 1 in communicable disease nursing, 9 in administration or management, 6 in office management, 6 in introductory records adminstration, 6 for an internship in medical administration, and 3 in technical report writing, for a total of 48 semester hours. In the upper-division baccalaureate category, 3 semester hours in patient care administration, 3 in management of medical facilities, 3 in advanced medical records administration, 3 in management problems, 6 for field experience in management or for an internship in management of medical facilities, and 3 in personnel management, and additional credit in administration, management, medical records administration, management of medical facilities, and for an internship in medical administration on the basis of institutional evaluation, for a minimum total of 21 semester hours (6/77).

MOS–91C–001

CLINICAL SPECIALIST

91C20
91C40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Applies nursing care principles, procedures, and techniques in care and treatment of patients, normally under the general supervision of a registered nurse or physician. *Skill Level 20:* Able to perform the duties required for 91B10 (Medical Specialist); applies nursing care procedures in caring for and treating acutely, seriously, and chronically ill patients; observes, detects, reports, and records objective and subjective symptoms using correct terminology; accurately calculates, prepares, and dispenses the prescribed dosages of medication, administering them by mouth, intradermal, subcutaneous, and intramuscular injections, and observing and recording their effects; administers parenteral fluids and blood derivatives; performs catheterizations and bladder irrigations and instillations; obtains specimens from patients and records results of diagnostic test and treatment procedures; performs and records pre-operative preparations and post-operative care and observations; assists with prenatal, natal, postnatal, newborn, and pediatric care; performs or assists physician with diagnostic tests, therapeutic procedures, sterile procedures, blood transfusions, removal of sutures, and similar procedures under both hospital and field conditions; treats common disease and injuries and performs more technical life-saving treatment procedures in the absence of a physician or registered nurse; instructs patients in good health practices. *Skill Level 40:* Able to perform the duties required for Skill Level 20; applies techniques and principles of nursing management; knows patient admission, transfer, and discharge procedures; reads and interprets medical records, patients' charts, and diagnostic reports, and makes entries, as required; requisitions, stores, safeguards, and issues supplies; inspects medical facilities to insure comfortable, orderly, clean, and safe environment for patients; assists physicians and registered nurses in conducting in-service training programs; supervises other enlisted personnel in providing health care.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 12 semester hours for clinical experience in nursing, 8 in medical-surgical nursing, 4 in anatomy and physiology, 3 in maternal and child nursing, 2 in theory and practice of patient care, 2 in introduction to pharmacology, 2 in administration of medications, 1 in psychiatric nursing, 1 in nutrition, and 1 in preventive medicine, for a total of 36 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours for clinical experience in nursing, 8 in medical-surgical nursing, 4 in anatomy and physiology, 3 in maternal and child nursing, 3 in team leadership, 3 in patient care administration, 2 in theory and practice of patient care, 2 in introduction to pharmacology, 2 in administration of medications, 1 in psychiatric nursing, 1 in nutrition, and 1 in preventive medicine, for a total of 42 semester hours. In the upper-division baccalaureate category, *if the duty assignment was chief wardmaster,* 3 semester hours for field experience in medical facility management (3/76).

MOS–91C–002

CLINICAL SPECIALIST

91C10
91C20
91C30
91C40
91C50

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Applies nursing care principles, procedures, and techniques in care and treatment of patients, normally under the general supervision of a registered nurse or physician. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); applies nursing care procedures in caring for and treating acutely, seriously, and chronically ill patients; observes, detects, reports, and records objective and subjective symptoms using correct terminology; accurately calculates, prepares, and dispenses the prescribed dosages of medication, administering them by mouth, intradermal, subcutaneous, and intramuscular injections, and observing and recording their effects; administers parenteral fluids and blood derivatives; performs catheterizations and bladder irrigations and instillations; obtains specimens from patients and records results of diagnostic test and treatment procedures; performs and records pre-operative preparations and post-operative care and observations; assists with prenatal, natal, postnatal, newborn, and pediatric care; performs or assists physician with diagnostic tests, therapeutic procedures, sterile procedures, blood transfusions, removal of sutures, and similar procedures under both hospital and field conditions; treats common disease and injuries and performs more technical life-saving treatment procedures in the absence of a physician or registered nurse; instructs patients in good health practices. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists with planning and providing emergency medical treatment; supervises operational maintenance program of assigned equipment; instructs in first aid procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 30; requisitions, stores, and issues supplies; inspects medical facilities; organizes work schedules, assigns duties, and instructs subordinates in work techniques and procedures; evaluates and counsels subordinate personnel; coordinates activities of duty area with other elements of the medical facility; prepares technical and administrative reports; assists with in-service training programs and with ward management. *Skill Level 50:* Able to perform the duties required for Skill Level 40; advises and assists professional staff in personnel, supply, fiscal, technical, and administrative matters; develops, implements, and evaluates training programs; establishes stock levels for supplies and equipment; establishes work priorities, distributes workload, and assigns personnel; compiles management data; inspects organizational activities, observes discrepancies, and takes corrective action.

Recommendation, Skill Levels 10 and 20

In the lower-division baccalaureate/associate degree category, 12 semester hours for clinical nursing experience, 8 in medical-surgical nursing, 4 in anatomy and physiology, 3 in maternal and child nursing, 3 in environmental health, 2 in theory and practice of patient care, 2 in pharmacology, 1 in nutrition, 1 in preventive medicine, and 1 in psychiatric nursing, for a total of 37 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Levels 10 and 20. In the upper-division baccalaureate category, 3 semester hours in patient care administration (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours for clinical nursing experience, 8 in medical-surgical nursing, 4 in anatomy and physiology, 3 in maternal and child nursing, 3 in environmental health, 3 in human relations, 2 in theory and practice of patient care, 2 in pharmacology, 1 in nutrition, 1 in preventive medicine, and 1 in psychiatric nursing, for a total of 40 semester hours. In the upper-division baccalaureate category, 3 semester hours in patient care administration (6/77).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 12 semester hours for clinical nursing experience, 8 in medical-surgical nursing, 4 in anatomy and physiology, 3 in maternal and child nursing, 3 in environmental health, 3 in human relations, 3 in personnel supervision, 3 in introduction to management, 2 in theory and practice of patient care, 2 in pharmacology, 1 in nutrition, 1 in preventive medicine, and 1 in psychiatric nursing, for a total of 46 semester hours. In the upper-division baccalaureate category, 3 semester hours in patient care administration and 3 in medical facilities management (6/77).

MOS–91D–001

OPERATING ROOM SPECIALIST

91D20
91D40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Prepares the patient and the operating room suite for surgical procedures, assists during surgery as a member of the surgical team, and prepares and issues sterile medical supplies and equipment. *Skill Level 20:* Able to perform the duties required for 91B10 (Medical Specialist); performs duties under supervision and with assistance; prepares patient for surgery by shaving and cleansing operative field; checks that extraneous articles such as dentures, jewelry, and prostheses have been removed from patient; transports patient and assists with positioning patient on operating table; performs final skin preparation and surgical draping of patient; scrubs and dons mask, cap, gown, and gloves; assists surgeon, anticipating need for, and passing, instruments and other items and retracting tissue and cutting sutures as directed; assists nurse with accounting of items used during surgery; collects, cares for, labels, and logs in specimens; applies dressings and simple casts; receives, sorts, inventories, decontaminates, cleans, examines, and sterilizes medical and surgical items; stamps, stores, and issues sterilized items and inspects for outdate; loads and operates washer-sterilizers, sterilizers, and ethylene aerators; tests samples from distilling apparatus for purity; prepares and sterilizes distilled water and normal saline for irrigation; reports defec-

tive material to supervisor; cleans and maintains work area. *Skill Level 40:* Able to perform the duties required for Skill Level 20; assists in managing operating room suite or central material section; plans and organizes work activities; inspects work area for physical and environmental safety; instructs Skill Level 20 personnel in techniques and procedures; serves as technical clinical consultant, administrative advisor, and coordinator to operating room, central material personnel, and other elements of medical treatment facility; conducts enlisted inservice programs to present, explain, plan, and discuss changes in clinical practices, new technical equipment, and changes in personnel policies; supervises procedures enabling units to function in toxic environments; keeps records; prepares reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic principles of operating room procedures (includes O.R. orientation and technique, microbiology, and surgical terminology), 3 in surgical basic sciences (includes anatomy and physiology in relation to the surgical approach to disease and injury), and 8 for a practicum in operating room techniques and procedures, for a total of 14 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic principles of operating room procedures (includes O.R. orientation and technique, microbiology, and surgical terminology), 3 in surgical basic sciences (includes anatomy and physiology in relation to the surgical approach to disease and injury), 8 for a practicum in operating room techniques and procedures, 3 in principles and practices of management and supervision, for a minimum total of 17 semester hours; *if the duty assignment was chief operating room specialist or chief central material specialist,* 3 additional semester hours for field experience in management, for a total of 20 semester hours (3/76).

MOS–91D–002

OPERATING ROOM SPECIALIST

91D10
91D20
91D30
91D40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Under the supervision of a registered nurse, supervises or assists in preparation and issue of sterile medical supplies and special equipment or prepares patient and operating suite for surgical procedures and assists during surgery. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); under close supervision, prepares and issues central material supplies and equipment, including sterile and nonsterile solutions, surgical packs, and instruments; performs operating room duties, including transporting, positioning, draping, and skin preparation of patient; circulates and/or scrubs to assist in minor operative procedures; collects and maintains records of specimens; maintains a record of items and inventories items after surgery is performed; applies dressings. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists in supervision, guidance, and training of subordinate personnel; maintains and operates highly technical surgical equipment; assists in surgical procedures; prepares tissue exam and culture slips; maintains emergency equipment; assists with cardiopulmonary resuscitation; inspects operating room to insure a clean, safe, and organized environment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; manages central material service; supervises maintenance of operating room equipment; supervises the requisitioning, storing, and issuing of supplies; manages the operating room suite, including the assignment of personnel; supervises, trains, and evaluates subordinate personnel; establishes work priorities; organizes work schedules; assigns duties; determines stock level of supplies and equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 30; administers central material service in large hospitals; supervises subordinate personnel and activities of central material service and operating rooms; advises and assists professional staff in clinical, fiscal, technical, and administrative matters; coordinates the activities of the operating room and central material service with other elements of the medical treatment facility; compiles and evaluates management data and personnel requirements.

Recommendation, Skill Levels 10 and 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic principles of operating room procedures (includes O.R. orientation and technique, microbiology, and surgical terminology), 3 in surgical basic sciences (includes anatomy and physiology in relation to the surgical approach to disease and injury), and 8 for a practicum in operating room techniques and procedures, for a total of 14 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic principles of operating room procedures (includes O.R. orientation and technique microbiology, and surgical terminology), 3 in surgical basic sciences (includes anatomy and physiology in relation to the surgical approach to disease and injury), 3 in personnel supervision, and 8 for a practicum in operating room techniques and procedures, for a total of 17 semester hours (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in basic principles of operating room procedures (includes O.R. orientation and technique, microbiology, and surgical terminology), 3 in surgical basic sciences (includes anatomy and physiology in relation to the surgical approach to disease and injury), 3 in personnel supervision, 3 for field experience in management, and 8 for a practicum in operating room techniques and procedures, for a total of 20 semester hours. In the upper-division baccalaureate category, credit in patient care administration and health facility management on the basis of institutional evaluation (6/77).

MOS–91E–001

DENTAL SPECIALIST

91E20
91E30
91E40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Performs technical and administrative tasks in assisting a dentist in the prevention, examination, care, and treatment of disease of the teeth and oral region. *Skill Level 20:* Takes dental x-rays or assists a dentist in patient dental care and treatment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; works as a chairside assistant and performs oral prophylaxis. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in the management of a dental office; performs all duties of chairside assisting and basic oral prophylaxis.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in dental science, 6 in chairside assisting and x-ray, 3 in dental materials, 1 in introduction to dental auxiliaries, and 1 in first aid, for a total of 17 semester hours (2/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in dental science, 6 in chairside assisting and x-ray, 3 in basic dental hygiene, 3 in dental materials, 1 in introduction to dental auxiliaries, and 1 in first aid, for a total of 20 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in dental science, 6 in chairside assisting and x-ray, 3 in basic business management, 3 in dental hygiene, 3 in dental materials, 1 in introduction to dental auxiliaries, and 1 in first aid, for a total of 23 semester hours (2/75).

MOS–91E–002

DENTAL SPECIALIST

91E10
91E20
91E30
91E40
91E50

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 911 (Dental).

Description

Summary: Assists in managing a dental facility or assists dentist in preventing, examining, and treating diseases of the teeth and oral region. *Skill Level 10:* Assists dentist in dental care and treatment; protects patient from excessive exposure to ionizing radiation; exposes and mounts bitewing, periapical, and occlusal radiographs, using bisecting angle and long-cone paralleling techniques; exposes extraoral panoramic radiographs; prepares developer and fixer solutions; prepares equipment and materials to measure and mix commonly used permanent and nonpermanent restorative materials, such as dental amalgam, composite and unfilled acrylic resins, zinc oxide and eugenol materials, cavity liners and bases, intermediate restorative materials, and zinc phosphate cement; prepares equipment and materials to measure and mix commonly used impression materials and gypsum products, including irreversible hydrocolloid, polysulfide impression material, plaster of Paris, and artificial stone; fabricates casts from preliminary impressions; prepares and maintains dental chair, unit, and light; sharpens dental instruments; prepares instrument setups for commonly performed dental procedures; identifies, selects, and passes to dentist appropriate instruments for dental treatment procedures in the oral surgical, oral diagnostic, endodontic, restorative, periodontic, pedodontic, orthodontic, and prosthodontic specialties; performs resuscitative procedures and operates resuscitative equipment; schedules dental appointments; maintains patient records and records information and data, using authorized symbols and abbreviations; applies aseptic techniques in cleaning, packaging, sterilizing, and storing dental instruments, equipment, and supplies. *Skill Level 20:* Able to perform the duties required for Skill Level 10; serves as a dental hygienist; selects and prepares dental handpieces, contra-angles, ultrasonic equipment, therapeutic solutions, and other materials to perform oral prophylaxis; applies disclosing solutions; assists dentists in carrying out oral disease control programs, including individual and group patient education and motivation; removes anatomical and acquired stains, calculus, and bacterial plaque from teeth, using hand

instruments or ultrasonic equipment, dental floss, and other adjuncts; polishes teeth with abrasives; applies topical fluoride solutions for prevention of dental caries; applies pit and fissure sealants; records information on abnormal appearance and characteristics of the tissues of teeth and oral region; refers patient to dentist for consultation and treatment; performs unit maintenance on hand instruments, contra-angles, and ultrasonic equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 20; performs reversible dental procedures under the direct supervision of a dentist; assists in managing a small dental facility; performs diagnostic procedures such as vitality tests, diet analysis, and nutritional consultation; exposes and develops special intraoral and extraoral radiographs; isolates operative site by placement of rubber dam; selects and applies matrix bands and wedges; inserts, condenses, carves, polishes, and finishes various restorations; assists dentist in treating pericoronitis and local osteitis; removes sutures; manages surgical patient pre- and post-operatively; makes preliminary impressions; isolates teeth for endodontic treatment; establishes stock level for supplies and equipment and is responsible for ordering, storing, and issuing supplies. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in managing medium-sized dental facility; assists dentist in performing complex dental procedures. *Skill Level 50:* Able to perform the duties required for 91E40 or 42D40 (Dental Laboratory Specialist); assists in managing a dental clinic, dental laboratory, or dental organization; normally supervises from 20 to 120 subordinate personnel; inspects dental facilities to assure cleanliness, safety, and comfort; assists dentists in analyzing clinical and laboratory operations to insure efficient utilization of personnel and equipment; supervises maintenance of administrative and professional dental files and technical library; reviews and consolidates technical, administrative, and personnel reports; coordinates the activities of dental units; provides technical assistance in planning and staffing new facilities and in modifying existing facilities; plans, schedules, coordinates, and supervises dental specialty training.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in clinical training (dental assistant), 3 in chairside assisting, 3 in dental radiology, 2 in basic dental science, and 1 in emergencies, for a total of 17 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in clinical training (dental assistant), 8 in clinical training (dental hygienist), 3 in chairside assisting, 3 in dental radiology, 3 in associated dental science, 3 in dental materials, 2 in basic dental science, 2 in dental health, and 1 in emergencies, for a total of 33 semester hours (6/77).

Recommendation, Skill Levels 30 and 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in clinical training (dental assistant), 8 in clinical training (dental hygienist), 8 in clinical training (dental therapy assistant), 6 in dental materials, 4 in dental health, 3 in chairside assisting, 3 in dental radiology, 3 in associated dental science, 2 in basic dental science, 2 in related dental science, 1 in emergencies, and 1 in four-handed dentistry, for a total of 49 semester hours (6/77).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 8 semester hours in clinical training (dental assistant), 8 in clinical training (dental hygienist), 8 in clinical training (dental therapy assistant), 6 in dental materials, 4 in dental health, 3 in chairside assisting, 3 in dental radiology, 3 in associated dental science, 2 in basic dental science, 2 in related dental science, 1 in emergencies, 1 in four-handed dentistry, 3 in personnel supervision, 2 in health care management, and 2 for field experience in management, for a total of 56 semester hours (6/77).

MOS–91F–001

NEUROPSYCHIATRIC SPECIALIST

91F20
91F30
91F40

Exhibit Dates: 3/74–8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Assists in the care and treatment of psychiatric, drug, and alcohol patients and in the management of a psychiatric facility, under the supervision of a psychiatric nurse. *Skill Level 20:* Able to perform the duties required for 91B10 (Medical Specialist); assists with diagnostic procedures; observes, records, and reports significant patient behavior; identifies and responds to psychopathological behaviors; provides intensive care for patients who are receiving special treatment; participates in individual and group therapies and somatic therapy; safeguards confidentiality of patients' clinical records and reports; orients patients to the services and routines of the treatment facility; supervises personal hygiene of patients and assists them in meeting their physical needs; accompanies patients to appointments and therapeutic activities within treatment facility and local community; functions as a member of electroconvulsive therapy team; assists with general nursing care activities, measuring and recording vital signs, administering prescribed medications, and collecting and labeling specimens. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists with management of psychiatric ward; organizes work schedules and assigns duties; evaluates personnel; requisitions, stores, and issues supplies and equipment; assists with in-service training programs; serves as a group facilitator, under professional supervision. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; assists with management of psychiatric nursing activity; advises and assists professional staff in technical, administrative, personnel, and fiscal matters; establishes work priorities; compiles management data; inspects facility to insure a comfortable, safe, and sanitary environment; coordinates activities with other elements of medical treatment facility.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 5 semester hours for clinical experience in mental health, 3 in psychiatric nursing, 3 in psychiatric therapies, 2 in human development, 2 in psychology of human adjustment (concepts of normality and psychopathology), for a total of 15 semester hours (3/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 5 semester hours in clinical experience in mental health, 3 in psychiatric nursing, 3 in psychiatric therapies, 3 in psychiatric ward management, 3 in personnel supervision, 2 in human development, and 2 in psychology of human adjustment (concepts of normality and psychopathology), for a total of 21 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, *if the duty assignment was chief psychiatric wardmaster at pay grade E–7 or detachment sergeant at pay grade E–7,* 5 semester hours for field experience in management (3/76).

MOS–91F–002

PSYCHIATRIC SPECIALIST

91F10
91F20
91F30
91F40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Assists in the care and treatment of psychiatric, drug, and alcohol patients and in the management of a psychiatric facility, under the supervision of a psychiatric nurse. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); assists with diagnostic procedures; observes, records, and reports significant patient behavior; identifies and responds to psychopathological behaviors; provides intensive care for patients who are receiving special treatment; participates in individual and group therapies and somatic therapy; safeguards confidentiality of patients' clinical records and reports; orients patients to the services and routines of the treatment facility; supervises personal hygiene of patients and assists them in meeting their physical needs; accompanies patients to appointments and therapeutic activities within treatment facility and local community; functions as a member of electroconvulsive therapy team; assists with general nursing care activities, measuring and recording vital signs, administering prescribed medications, and collecting and labeling specimens. *Skill Level 20:* Able to perform the duties required for Skill Level 10; dispenses medication; supervises patient activities, such as physical reconditioning, occupational therapy, recreational therapy, and group therapy; functions as a member of electroconvulsive therapy team. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists with management of psychiatric ward; organizes work schedules and assigns duties; evaluates personnel; requisitions, stores, and issues supplies and equipment; assists with in-service training programs; serves as a group facilitator, under professional supervision. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; assists with management of psychiatric nursing activity; advises and assists professional staff in technical, administrative, personnel, and fiscal matters; establishes work priorities; compiles management data; inspects facility to insure a comfortable, safe, and sanitary environment; coordinates activities with other elements of medical treatment facility; reviews and consolidates technical and administrative reports.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in psychiatric nursing, 3 in psychiatric therapies, 3 for clinical experience in mental health, 2 in abnormal psychology, and 2 in human development, for a total of 13 semester hours (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in psychiatric nursing, 3 in psychiatric therapies, 5 for clinical experience in mental health, 2 in abnormal psychology, and 2 in human development, for a total of 15 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 5 semester hours for clinical experience in mental health, 3 in psychiatric nursing, 3 in psychiatric therapies, 3 in psychiatric ward management, 3 in personnel supervision, 2 in abnormal psychology, and 2 in human development, for a total of 21 semester hours (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, credit in pa-

tient care administration and medical facility management on the basis of institutional evaluation (6/77).

MOS–91G–001

BEHAVIORAL SCIENCE SPECIALIST
(SOCIAL WORK/PSYCHOLOGY SPECIALIST)

91G20
91G40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 914 (Medical Services).

Description

Summary: Assists with management of mental health facility or assists professional staff in obtaining social case histories, collecting basic psychological data, and counseling. *Skill Level 20:* Assists psychologist, social worker, or psychiatrist in gathering social histories and psychological data and in counseling clients; interviews clients; administers and scores tests; records behavioral characteristics based on interviews and observations; conducts collateral interviews and abstracts and compiles pertinent information from clinical and other records; presents case study and recommendations orally and in writing; maintains a counseling relationship to ascertain adjustment of clients; assists in resolving adjustment problems, including physical trauma; assists in providing counseling services for personnel with marital problems, indebtedness, drug abuse, alcoholism, child and adolescent maladaptive behavior patterns; intervenes in a crisis situation; collects and organizes statistical data. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises preparation, dispatch, safeguarding, and filing of clinical reports and records; plans work schedules and assigns duties; supervises Skill Level 20 personnel; conducts in-service training programs and conferences; coordinates activities with other medical personnel; prepares, consolidates, and reviews technical, administrative, and personnel reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in psychology (includes human growth and development, testing, behavioral concepts, and personality disorders), 3 in interviewing theory and skills, 3 in psychiatric treatment modalities, and 3 for a practicum in counseling, for a total of 12 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in psychology (includes human growth and development, testing, behavioral concepts, and personality disorders), 3 in interviewing theory and skills, 3 in psychiatric treatment modalities, 3 for a practicum in counseling, 2 in mental health facility management, and 1 in personnel supervision, for a total of 15 semester hours (3/76).

MOS–91G–002

BEHAVIORAL SCIENCE SPECIALIST

91G10
91G20
91G30
91G40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Under professional supervision, assists with management of mental health activity or obtains social case histories; collects basic psychological data; performs counseling functions. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); interviews clients; conducts collateral interviews and screens records; administers and scores intelligence tests under supervision; assists in determining client need for referral to a professional; records psychosocial data and behavior observations; orients and refers clients to military, civilian, and agency resources; prepares and presents cases for staffings and conferences; requests and transmits client records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; under professional supervision, provides supportive counseling and follow-up service to individuals experiencing a wide range of social or emotional problems; assists with group counseling and therapy sessions; leads discussion groups; assists in determination of need for hospitalization; under supervision, administers and scores achievement tests, objective personality tests, and tests of organic impairment and records the results; assists patients with discharge planning; consults on management of individual behavioral problems; assists professional staff in setting up home health care programs and makes follow-up home visits; gathers statistical data; establishes and maintains clinical and general office files. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides advice and limited technical guidance to subordinate personnel; provides supportive counseling and crisis intervention services to clients; assists in staffing and coordination of highly complex cases; collects and organizes research data and makes statistical computations; assists in analysis of research data and report writing; compiles case load data and assigns clients to specific staff members; evaluates manpower requirements; prepares administrative reports; requisitions, stores, and issues supplies, equipment, publications, and training aids; develops work procedures and practices; prepares and conducts in-service training programs. *Skill Level 40:* Able to perform the duties required for Skill Level 30; under supervision, administers and records thematic projective tests; assists in determining program and management objectives and procedures; establishes work priorities and work schedules; assigns duties and instructs subordinates in work techniques and procedures; prepares and conducts training programs; evaluates and counsels personnel and prepares evaluation reports; coordinates activity of facility with related elements of the medical treatment facility; advises and assists professionals with fiscal, technical, and administrative matters; establishes stock level for supplies and equipment.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 6 semester hours in clinical psychology and counseling, 3 in psychology, 3 in human relations, 1 in sociology, and 1 in psychological testing, for a total of 14 semester hours (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in clinical psychology and counseling, 3 in psychology, 3 in human relations, 3 in psychological testing, and 1 in sociology, for a total of 16 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 8 semester hours in clinical psychology and counseling, 3 in psychology, 3 in human relations, 3 in psychological testing, 2 in personnel supervision, and 1 in sociology, for a total of 20 semester hours. In the upper-division baccalaureate category, credit in patient care administration on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 8 semester hours in clinical psychology and counseling, 4 in psychological testing, 3 in psychology, 3 in human relations, 3 in personnel supervision, 3 in principles of administration, and 1 in sociology, for a total of 25 semester hours. In the upper-division baccalaureate category, credit in patient care administration and medical facility management on the basis of institutional evaluation (6/77).

MOS–91H–001

ORTHOPEDIC SPECIALIST

91H20
91H40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Assists physician in treatment of patients with orthopedic conditions and injuries and/or assists with the management of orthopedic clinic. *Skill Level 20:* Able to perform the duties of 91B10 (Medical Specialist); assists with minor surgery in orthopedic clinic (does not scrub in the operating room); prepares treatment area and lays out equipment and sterile/nonsterile supplies; transfers and prepares patient for surgery; assists in positioning patient on fracture table or other work surface and operates the fracture table under supervision of physician; assists with suturing in orthopedic clinic; changes dressings and bandages, removes sutures, and cleans and performs minor debridement of open wounds; fabricates, modifies, applies, and removes casts; constructs and applies splints; makes support bandages and slings; instructs patients regarding care of casts; assists with application of skeletal traction; applies skin traction to open stumps. *Skill Level 40:* Able to perform the duties required for Skill Level 20; assists with management of orthopedic clinic; organizes work schedules and assigns duties; instructs personnel in techniques and procedures; requisitions, stores, and issues supplies; reviews, consolidates, and prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 7 semester hours for clinical experience in cast fabrication, modification, and application, 4 in anatomy and physiology, 2 in cast technique, 2 in orthopedic methods and materials, and 1 for clinical experience in traction application, for a total of 16 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 7 semester hours for clinical experience in cast fabrication, modification, and application, 4 in anatomy and physiology, 3 in human relations, 3 in clinic management, 2 in cast technique, 2 in orthopedic methods and materials, and 1 for clinical experience in traction application, for a total of 22 semester hours (3/76).

MOS–91H–002

ORTHOPEDIC SPECIALIST

91H10
91H20
91H30
91H40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Assists physician in treating patients with orthopedic conditions and injuries or assists in managing an orthopedic clinic. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); under close supervision of a physician, treats orthopedic patients; may perform the duties required for Skill Level 20. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists

with minor surgery in orthopedic clinic; prepares treatment area and patient for surgery or treatment; transfers patients with unstable fractures to fracture table or other work surface; operates fracture table and assists in positioning patient; changes dressings and bandages; removes sutures; cleans and performs minor debridement of open wounds; fabricates, modifies, and removes short and long leg and arm casts and hip and shoulder spica; rolls or manually shapes plaster around area to be immobilized; constructs and applies plaster and mechanized splints; makes support bandages and slings; instructs patients regarding care and danger of casts; assists in applying and adjusting skeletal traction. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical guidance to subordinate personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in managing an orthopedic clinic; organizes work schedules; assigns duties; instructs subordinate personnel in work techniques and procedures; evaluates personnel performance and prepares evaluation reports; establishes safety procedures; inspects work area to insure a safe working environment; supervises operator maintenance on assigned equipment; requisitions, stores, and issues supplies and equipment; reviews, consolidates, and prepares technical, personnel, and administrative reports; coordinates activities of orthopedic clinic with other elements of treatment facility; assists physician with technical, personnel, and fiscal matters.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, credit in anatomy, physiology, principles of orthopedics, orthopedic methods and materials, and clinical application of orthopedic principles on the basis of institutional evaluation (6/77).

Recommendation, Skill Levels 20 and 30

In the lower-division baccalaureate/associate degree category, 5 semester hours in clinical application of orthopedic principles, 4 in principles of orthopedics, 4 in orthopedic methods and materials, 3 in clinical orthopedic assisting, 3 in anatomy, and 1 in physiology, for a total of 20 semester hours (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 5 semester hours in clinical application of orthopedic principles, 4 in principles of orthopedics, 4 in orthopedic methods and materials, 3 in clinical orthopedic assisting, 3 in anatomy, 3 in personnel supervision, 2 in communication skills, 2 in principles of management, 1 in health care management, and 1 in physiology, for a total of 28 semester hours. In the upper-division baccalaureate category, credit in medical facility management on the basis of institutional evaluation (6/77).

MOS–91J–001

PHYSICAL THERAPY SPECIALIST

91J20
91J40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 913 (Physical Medicine).

Description

Summary: Administers heat, water, manual, and other selected physical therapy treatments to patients; works under the supervision of a physical therapist. *Skill Level 20:* Able to perform the duties required for 91B10 (Medical Specialist); administers treatments involving the use of hot and cold packs, infrared, diathermy, ultrasonic apparatus, ultraviolet lamps, whirlpool, and contrast and paraffin baths; conducts progressively graded conditioning exercises for patients; explains and demonstrates the use of exercise equipment for patients. *Skill Level 40:* Able to perform the duties required for Skill Level 20; assists with the management of the physical therapy section of a medical or treatment facility; inspects the facility; inspects the facility and equipment for safety hazards; organizes work schedules and assigns duties for a minimum of three personnel; assists the physical therapist with in-service training programs; orders, stores, and issues supplies; reviews, consolidates, and prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in health science and 6 in physical therapy (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in health science, 6 in physical therapy, and 6 in administration or management, for a total of 18 semester hours (2/75).

MOS–91J–002

PHYSICAL THERAPY SPECIALIST

91J10
91J20
91J30
91J40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Under the direction of a physical therapist and following medical prescription, supervises or administers physical therapy treatment and exercises to decrease physical disabilities and to promote physical fitness of patients. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); under close supervision, administers physical therapy treatments to patients. *Skill Level 20:* Able to perform the duties required for Skill Level 10; transports, positions, and drapes patients for treatment; administers treatment involving use of heat, ice, cervical and pelvic traction, ultraviolet light, ultrasound treatment, whirlpool, hydrotherapy, therapeutic massage, electrical stimulation, and manual exercise procedures; assists in performing postural drainage; instructs and assists patients with casts in ambulation and gait training; administers progressive resistance and physical reconditioning exercises; stores and issues supplies and equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists with management of medium-sized physical therapy clinic; instructs and assists patients in exercise activities; performs exercise procedures for amputees and patients with central nervous system disorders; supervises operational management of unit, including personnel, supplies, equipment, and scheduling; prepares patient and administrative reports; coordinates activities of physical therapy clinic with other elements of medical treatment facility. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists with management of large physical therapy clinic; supervises integration of segmented and diversified physical therapy programs conducted in several clinics.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in health science (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in health science and 6 in physical therapy (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in health science, 6 in physical therapy, 2 in human relations, and 1 for field experience in management, for a total of 15 semester hours. In the upper-division baccalaureate category, credit in patient care administration on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 6 semester hours in health science, 6 in physical therapy, 3 in human relations, and 3 for field experience in management, for a total of 18 semester hours. In the upper-division baccalaureate category, credit in patient care administration and medical facility management on the basis of institutional evaluation (6/77).

MOS–91L–001

OCCUPATIONAL THERAPY SPECIALIST

91L20
91L40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 913 (Physical Medicine).

Description

Summary: Instructs and assists patients in arts and crafts activities to promote recovery from injury or illness; works under the supervision of an occupational therapist. *Skill Level 20:* Able to perform the duties required for 91B10 (Medical Specialist); instructs and assists patients in activities such as woodworking, metal working, printing, leather working, and weaving and in the use of ceramics, plastics, and other art media; observes patient response and reports pertinent observations to an occupational therapist; motivates patients to participate in occupational therapy activities. *Skill Level 40:* Able to perform the duties required for Skill Level 20; plans occupational therapy programs; assigns duties and instructs a minimum of three personnel in techniques and procedures used in a variety of therapeutic activities; prepares technical, personnel, and administrative reports on occupational therapy activities; requisitions, stores, and issues supplies and equipment.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in creative arts, 6 in educational techniques, and 6 in occupational therapy, for a total of 21 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in creative arts, 6 in educational techniques, 6 in occupational therapy, and 6 in administration or management, for a total of 27 semester hours. In the upper-division baccalaureate category, credit on the basis of institutional evaluation (2/75).

MOS–91L–002

OCCUPATIONAL THERAPY SPECIALIST

91L10
91L20
91L30
91L40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Under the direction of a registered

occupational therapist, assists patients in media skills and work therapy activities; conducts interviews, administers tests, and assists patients with daily living activities to promote physical and mental health. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); interviews, tests, teaches, and assists clients in occupational therapy activities; assists in evaluating test results; interprets physician's referrals to determine therapeutic strategies; arranges for and supervises work for recreational therapeutic activities; observes, measures, and reports physiological and psychological patient responses; maintains progress records; measures, fabricates, fits, adjusts, and instructs in the use of adaptive devices; maintains equipment and supplies; maintains safe and comfortable work area. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assists in administering occupational therapy programs; plans ward, clinic, and recreational activity programs and assists with planning for home activity programs; teaches activities of daily living. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists with management of medium-sized occupational therapy clinic; prepares work schedules; instructs subordinates; evaluates personnel performance; prepares administrative and patient reports; coordinates activities of occupational therapy program; advises and assists therapist in personnel and administrative matters; maintains supply levels as needed; coordinates activities of occupational therapy clinic with other elements of the medical treatment facility. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists with management of a large occupational therapy clinic; coordinates integration of segmented and diversified occupational therapy program conducted in several clinics; develops, supervises, and evaluates work method procedures and training programs; plans clinic layout and requests supporting services.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in creative arts, 3 in educational techniques, 3 in occupational therapy skills, and 3 for field experience in occupational therapy, for a total of 12 semester hours (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in creative arts, 6 in occupational therapy, 6 for field experience in occupational therapy, 3 in educational techniques, and 3 in human relations, for a total of 24 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 6 semester hours in creative arts, 6 in occupational therapy, 6 for field experience in occupational therapy, 3 in educational techniques, 3 in human relations, and 3 in personnel supervision, for a total of 27 semester hours. In the upper-division baccalaureate category, credit in patient care administration on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in creative arts, 6 in occupational therapy, 6 for field experience in occupational therapy, 3 in educational techniques, 3 in human relations, and 3 in personnel supervision, and additional credit in principles of administration or introduction to management on the basis of institutional evaluation, for a minimum total of 27 semester hours. In the upper-division baccalaureate category, credit in patient care administration and medical facility management on the basis of institutional evaluation (6/77).

MOS–91N–001

CARDIAC LABORATORY SPECIALIST

91N20
91N30
91N40

Exhibit Dates: 3/74–8/76.

Career Management Field: 91 (Medical), *subfield* 914 (Medical Services).

Description

Summary: Assists with management of cardiac laboratory or records electrocardiograms (ECG) and vectorcardiograms or assists with specialized cardiac tests and examinations. *Skill Level 20:* Able to perform the duties required for 91B10 (Medical Specialist); sets up, calibrates, operates, and maintains electrocardiograph, vectorcardiograph, and phonocardiograph; attaches electrodes and conducts tests according to established procedures; transmits record to physician; cuts and mounts tracing for inclusion in medical record. *Skill Level 30:* Able to perform the duties required for Skill Level 20; prepares and sets up equipment in sterile field for right and left cardiac catheterization, venous and arterial angiography, and insertion of temporary and permanent pacemakers; calibrates and operates multichannel physiologic recorders with attachments and monitors ECG, pressure curves, and other physiologic parameters; standardizes and operates electronic oximeters, dye curve densitometers, and wheatstone bridges; calibrates and operates blood gas analyzer; calculates test results, using standardized formulas; forms, molds, and refines special cardiovascular catheters, needles, and tubing; assists with resuscitation procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; assists in managing cardiac laboratory; plans work schedules; assigns duties; trains personnel in work procedures and techniques; requisitions, stores, and issues supplies and equipment; enforces safety rules in use of equipment and medical gases; prepares, reviews, and consolidates technical, administrative, and personnel reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 1 semester hour for cardiovascular technology and 1 for cardiovascular electronics (3/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 10 semester hours for a cardiovascular internship, 3 in cardiovascular anatomy and physiology, 3 in cardiovascular patient care, 2 in cardiovascular chemical analysis, 2 in physiological chemistry, 2 in pulmonary functions, 2 in cardiovascular technology, 2 in cardiovascular electronics, and 1 in technical mathematics, for a total of 27 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/assocate degree category, 10 semester hours for a cardiovascular internship, 3 in cardiovascular anatomy and physiology, 3 in cardiovascular patient care, 2 in cardiovascular chemical analysis, 2 in physiological chemistry, 2 in pulmonary functions, 2 in cardiovascular technology, 2 in cardiovascular electronics, 1 in technical mathematics, 3 in human relations, 1 in personnel supervision, and 2 in laboratory management, for a total of 33 semester hours (3/76).

MOS–91N–002

CARDIAC SPECIALIST

91N10
91N20
91N30
91N40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Assists with management of cardiac clinic or performs specialized noninvasive cardiac tests and examinations. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); under close supervision, assists Skill Level 20 personnel. *Skill Level 20:* Sets up, calibrates, operates, and maintains electrocardiograph, vectorcardiograph, and phonocardiograph; attaches electrodes and conducts tests according to established procedures; transmits record to physician; cuts and mounts tracing for inclusion in medical records; administers endurance tests; under supervision, performs technical examination during operation of artificial pacemaker; performs cardiopulmonary resuscitation and uses defibrillator; performs maintenance on equipment; receives, stores, and maintains level of supplies. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides technical guidance to subordinate personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; establishes work priorities and work schedules; assigns duties and instructs subordinates in procedures; inspects facilities; determines personnel requirements and conducts training programs; supervises operational maintenance program of laboratory and clinical equipment; evaluates and counsels personnel; establishes stock level for supplies and equipment and supervises requisition, storage, and issue of supplies.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in cardiovascular anatomy and pysiology, 3 in cardiovascular patient care, 2 in cardiovascular technology, 2 in cardiovascular electronics, 2 in physiological chemistry, and 1 in technical mathematics, for a total of 13 semester hours (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 10 semester hours for a cardiovascular internship, 3 in cardiovascular anatomy and physiology, 3 in cardiovascular patient care, 2 in cardiovascular technology, 2 in cardiovascular electronics, 2 in physiological chemistry, and 1 in technical mathematics, for a total of 23 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 10 semester hours for a cardiovascular internship, 3 in cardiovascular anatomy and physiology, 3 in cardiovascular patient care, 2 in cardiovascular technology, 2 in cardiovascular electronics, 2 in physiological chemistry, 1 in technical mathematics, and 2 in personnel supervision, for a total of 25 semester hours (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 10 semester hours for a cardiovascular internship, 3 in cardiovascular anatomy and physiology, 3 in cardiovascular patient care, 2 in cardiovascular technology, 2 in cardiovascular electronics, 2 in physiological chemistry, 1 in technical mathematics, 3 in personnel supervision, 3 in human relations, and 2 for field experience in management, for a total of 31 semester hours (6/77).

MOS–91P–001

X-RAY SPECIALIST

91P20
91P40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 914 (Medical Services).

Description

Summary: Operates or supervises the operation of fixed and portable x-ray equipment to take radiographs and to assist with treatment procedures. *Skill Level 20:* Operates x-ray machines, utilizing proper controls, voltage, current, exposure time, and safety precautions; applies principles of anatomy and physiology in

determining essential factors of positioning in radiopathy; assists during fluoroscopic procedures, such as gastrointestinal studies, aortograms, arteriograms, venograms, cardiac catheterizations, urograms, and pneumogynecograms; connects and operates other equipment items used during fluoroscopy, such as cine camera, fluoroscopic viewers, rapid film changers, and automatic high-pressure injectors of contrast media. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises x-ray activities; inspects safety standards and initiates corrective action if necessary; organizes work schedules, assigns duties, and instructs personnel in technical procedures; supervises specialists in radiopathy procedures; requisitions, stores, and issues supplies; reviews, consolidates, and prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in radiation protection, 6 in introductory radiologic technology, 9 for a radiologic internship, and 12 in radiologic technology procedures, positioning, contrast media, and intra-oral radiopathy, for a total of 30 semester hours (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in radiation protection, 3 in personnel management, 3 in equipment and supplies management, 6 in introductory radiologic technology, 12 for a radiologic internship, and 12 for radiologic procedures, positioning, contrast media, and intra-oral radiopathy, for a total of 39 semester hours (2/75).

MOS–91P–002

X-Ray Specialist

91P10
91P20
91P30
91P40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Operates or supervises the operation of fixed and portable x-ray equipment to take radiographs and to assist with treatment procedures. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); performs routine radiographic procedures; operates x-ray machines, utilizing proper exposure factors; applies radiation safety principles to protect self and patients from ionizing radiation; assists radiologists with fluoroscopic examination and simple special radiographic procedures; processes radiographic films by manual and automatic methods; performs routine patient administration, including the maintenance of radiographic records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; assembles radiographs for reading; performs body section, stereoscopic foreign body localization, prenatal, and pediatric radiographic procedures; performs follow-up radiographic examinations of the digestive, urogenital, respiratory, vascular, and nervous system; takes radiographs of the extremities, trunk, and skull, using portable equipment; assists with special radiographic and fluoroscopic procedures. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs complex or specialized radiograph procedures or supervises a medium-sized x-ray activity; performs routine examinations or assists with special examinations of the urogenital, respiratory, vascular, and nervous systems; inspects x-ray activities for compliance with radiation safety procedures and initiates corrective action; organizes work schedules; assigns duties; instructs personnel in technical procedures; supervises preventive maintenance of equipment; supervises procedures to enable unit to function in a toxic environment; evaluates personnel performance and prepares evaluation reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises a large x-ray activity; inspects clinic to insure a safe, clean, orderly, comfortable environment for patients; establishes work priorities; reviews, consolidates, and prepares technical, administrative, and personnel reports; coordinates activities of clinic with other elements of the medical treatment facility.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours for a clinical internship, 6 in radiographic techniques, and 3 in radiation protection, for a total of 18 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 15 semester hours for a clinical internship, 6 in radiographic techniques, 3 in radiation protection, and 3 in special radiographic procedures, for a total of 27 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 15 semester hours for a clinical internship, 6 in radiographic techniques, 3 in radiation protection, 3 in special radiographic procedures, and 3 in personnel supervision, for a total of 30 semester hours. In the upper-division baccalaureate category, credit in patient care administration on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 15 semester hours for a clinical internship, 6 in radiographic techniques, 3 in radiation protection, 3 in special radiographic procedures, 3 in personnel supervision, and 3 for field experience in management, for a total of 33 semester hours. In the upper-division baccalaureate category, 3 semester hours in radiology department administration and credit in patient care administration on the basis of institutional evaluation (6/77).

MOS–91Q–001

Pharmacy Specialist

91Q10
91Q20
91Q40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 914 (Medical Services).

Description

Summary: Works under the supervision of a registered pharmacist or a physician; compounds, manufactures, and packages pharmaceutical products; assists in dispensing pharmaceuticals. *Skill Level 10:* Prepares commonly used ointments, solutions, lotions, and syrups; pours, weighs, and measures dosages; grinds, heats, filters, dissolves, and mixes liquids or soluble drugs and chemicals; packages, labels, stores, and issues pharmaceuticals. *Skill Level 20:* Able to perform the duties required for Skill Level 10; interprets and verifies authenticity of prescriptions prepared by physicians, dentists, podiatrists, and veterinarians; assists a registered pharmacist in preparing drugs and medications, including narcotics and registered drugs; labels prescriptions; files signature cards and prescriptions. *Skill Level 40:* Able to perform the duties required for Skill Level 20; assists with the management of pharmacy, assuring compliance with Federal and Army laws, rules, and regulations; keeps inventory of supplies; provides information regarding strength and composition of medications; supervises a minimum of five pharmacy personnel; reviews, consolidates, and prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 6 semester hours in general chemistry, 6 in general biology, 6 in laboratory techniques, and 6 in health sciences, for a total of 24 semester hours (2/75).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 9 semester hours in laboratory techniques, 6 in general chemistry, 6 in biology, 6 in health science, 3 in administration, and 3 for a pharmaceutical assistant internship, for a total of 33 semester hours. In the upper-division baccalaureate category, credit on the basis of institutional evaluation (2/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 9 semester hours in administration, 9 in laboratory techniques, 9 for a pharmaceutical assistant internship, 6 in general chemistry, 6 in biology, and 6 in health sciences, for a total of 45 semester hours. In the upper-division baccalaureate category, credit on the basis of institutional evaluation (2/75).

MOS–91Q–002

Pharmacy Specialist

91Q10
91Q20
91Q30
91Q40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Supervises or prepares, controls, and issues pharmaceutical products, under supervision of pharmacist or physician. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); under supervision, interprets, compounds, manufactures, and files prescription orders, bulk drug orders, or unit dose orders; performs storage, accounting, inventory, and control procedures for pharmaceuticals; operates and maintains manufacturing and packaging equipment; assists in setting up unit equipment and shelters. *Skill Level 20:* Able to perform the duties required for Skill Level 10; issues and requisitions medications; evaluates prescription orders, bulk drug orders, or unit dose orders; checks drug orders for interactions, incompatibilities, and availability of dosage forms; issues medications to patients, wards, clinics, and other using agencies. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides guidance to subordinate personnel; assists in pharmacy inspections; orders standard and non-standard supplies; maintains stock levels; supervises sections within pharmacy service. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in compiling information for meetings of Therapeutic Agent Board; assists in revision and update of hospital formulary or drug list; organizes work schedules; instructs personnel in procedures and conducts in-service training; evaluates personnel and prepares evaluation reports; sets stock levels and prepares requisition; prepares technical, personnel, and administrative reports; coordinates pharmacy activities with other elements of medical treatment facility.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 5 semester hours in introduction to pharmacy practice and 3 in pharmacy assisting, and additional credit in general chem-

istry, pharmaceutical chemistry, pharmacology, health sciences, and physiology on the basis of institutional evaluation, for a minimum total of 8 semester hours. In the upper-division baccalaureate category, 3 semester hours in pharmaceutical laboratory and 2 in pharmaceutical mathematics (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 10 semester hours in introduction to pharmacy practice and 3 in pharmacy assisting, and additional credit in general chemistry, pharmaceutical chemistry, pharmacology, health sciences, and physiology on the basis of institutional evaluation, for a minimum total of 13 semester hours. In the upper-division baccalaureate category, 3 semester hours in pharmaceutical laboratory and 2 in pharmaceutical mathematics (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 10 semester hours in introduction to pharmacy practice, 3 in pharmacy assisting, and 1 in inventory control, and additional credit in general chemistry, pharmaceutical chemistry, pharmacology, pharmaceutical preparations, health sciences, physiology, and laboratory techniques on the basis of institutional evaluation, for a minimum total of 14 semester hours. In the upper-division baccalaureate category, 3 semester hours in pharmaceutical laboratory and 2 in pharmaceutical mathematics (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 10 semester hours in introduction to pharmacy practice, 3 in pharmacy assisting, 3 in personnel supervision, 2 in principles of administration, and 1 in inventory control, and additional credit in general chemistry, pharmaceutical chemistry, pharmacology, pharmaceutical preparations, health sciences, physiology, and laboratory techniques on the basis of institutional evaluation, for a minimum total of 19 semester hours. In the upper-division baccalaureate category, 3 semester hours in pharmaceutical laboratory and 2 in pharmaceutical mathematics, and additional credit in medical facility management on the basis of institutional evaluation, for a minimum total of 5 semester hours (6/77).

MOS–91R–001

FOOD INSPECTION SPECIALIST

91R10
91R20
91R40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 914 (Medical Services).

Description

Summary: Inspects food and food products for quality, safety, and adherence to contractual specifications. *Skill Level 10:* Assists with food hygiene and quality assurance inspections, using principles of statistical sampling, food microbiology, laboratory analysis, and knowledge of food processing and preservation. *Skill Level 20:* Able to perform the duties required for Skill Level 10; conducts subsistence procurement inspections; inspects processing, handling, packaging, packing, and quality control procedures in canneries, slaughterhouses, and dairies and in waterfood, meatpacking and dehydration plants; examines poultry, eggs, fruit, vegetables, seafoods, meats, and dairy products; selects, prepares, and transmits samples for laboratory testing; reviews test results for contractual requirements; records contractual deficiencies and violations and initiates recommendations for corrective action; develops and applies double and multiple statistical sampling procedures and switching techniques; reviews and updates publications relative to quality assurance procedures; assists veterinarian in antemortem and postmortem examination of food animals. *Skill Level 40:* Able to perform the duties required for Skill Level 20; trains subordinates in food inspection and sanitary control programs; analyzes reports and surveys and recommends remedial action; coordinates transportation, administration, and logistical support of food inspectors assigned from parent veterinary activity; reviews, consolidates, and prepares team inspection records and other technical, personnel, and administrative reports.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 8 semester hours in food science, 3 in inspection procedures and regulations, and 2 in microbiology, for a total of 13 semester hours (3/76).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 17 semester hours in food science, 4 in inspection procedures and regulations, and 2 in microbiology, for a total of 23 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 17 semester hours in food sciences, 4 in inspection procedures and regulations, 3 in human relations, 3 in personnel supervision, and 2 in microbiology, for a total of 29 semester hours. In the upper-division baccalaureate category, *if the duty assignment was chief food inspection NCO at pay grade E-8*, 3 semester hours for field experience in management (3/76).

MOS–91R–002

VETERINARY SPECIALIST

91R10
91R20
91R30
91R40
91R50

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 913 (Health Services).

Description

Summary: Inspects food and food products for quality, safety, and adherence to contractual specifications. *Skill Level 10:* Assists with food hygiene and quality assurance inspections, using principles of statistical sampling, food microbiology, laboratory analysis, and knowledge of food processing and preservation. *Skill Level 20:* Able to perform the duties required for Skill Level 10; conducts subsistence procurement inspections; inspects processing, handling, packaging, packing, and quality control procedures in canneries, slaughterhouses, and dairies, and in waterfood, meatpacking, and dehydration plants; examines poultry, eggs, fruit, vegetables, seafoods, meats, and dairy products; selects, prepares, and transmits samples for laboratory testing; reviews test results for contractual requirements; records contractual deficiencies and violations and initiates recommendations for corrective action; develops and applies double and multiple statistical sampling procedures and switching techniques; reviews and updates publications relative to quality assurance procedures; assists veterinarian in antemortem and postmortem examination of food animals. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises procurement quality assurance and surveillance inspections; establishes work priorities; organizes work schedules; assigns duties; instructs subordinate personnel; supervises equipment maintenance programs; prepares and conducts training programs; evaluates personnel performance; maintains technical records; requisitions, stores, and issues supplies. *Skill Level 40:* Able to perform the duties required for Skill Level 30; trains subordinates in food inspection and sanitary control programs; analyzes reports and surveys and recommends remedial action; coordinates transportation, administration, and logistical support of food inspectors; reviews, consolidates, and prepares team inspection records and other technical, personnel, and administrative reports. *Skill Level 50:* Able to perform the duties required for 91R40, 91S40 (Environmental Health Specialist), or 91T40 (Animal Specialist); develops work methods and procedures; develops, directs, and evaluates training programs; coordinates activities of veterinary and environmental health activities; assists professional staff with technical, administrative, and fiscal matters.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 7 semester hours in food science, 6 in inspection procedures and regulations, and 1 in veterinary preventive medicine, for a total of 14 semester hours (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 16 semester hours in food science, 7 in inspection procedures and regulations, and 2 in veterinary preventive medicine, for a total of 25 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 16 semester hours in food science, 7 in inspection procedures and regulations, 2 in veterinary preventive medicine, and 2 in personnel supervision, for a total of 27 semester hours (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 16 semester hours in food science, 7 in inspection procedures and regulations, 3 in personnel supervision, 3 in human relations, and 2 in veterinary preventive medicine, for a total of 31 semester hours (6/77).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 16 semester hours in food science, 7 in inspection procedures and regulations, 3 in personnel supervision, 3 in human relations, 3 in principles of management, and 2 in veterinary preventive medicine, for a total of 34 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management and 3 in management problems (6/77).

MOS–91S–001

PREVENTIVE MEDICINE SPECIALIST

91S10
91S20
91S40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 914 (Medical Services).

Description

Summary: Supervises or conducts surveys and inspections of environmental factors affecting health of persons in areas of concern. *Skill Level 10:* Inspects living quarters, food-handling establishments, water and waste disposal systems, work areas, barber shops and other facilities to detect deficiencies in sanitation standards and recommends corrective action; collects, identifies, preserves, and ships medically important arthropods and rodents; performs pest control procedures, including selection, safe handling, mixing, application, and disposal of pesticides; conducts environmental health surveys to determine compliance with standards and regulations; inspects facilities where ionizing and non-ionizing radiation is produced to identify and report potential health hazards; operates and maintains equipment used in inspections, surveys, and control procedures. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs field studies and surveys to determine potential for and incidence of disease vectors; tests and

recommends procedures to control insects resistant to insecticides; conducts on-the-job training for field sanitation teams in environmental sanitation and control of animal reservoirs and disease vectors. *Skill Level 40:* Able to perform the duties required for Skill Level 20; plans work schedules; assigns duties; instructs Skill Level 10 and 20 personnel in techniques and procedures; requisitions, stores, and issues supplies and equipment; assists in analyzing and evaluating data; prepares, reviews, and consolidates technical, administrative, and personnel reports.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in environmental science (includes basic concepts of chemistry, biology, laboratory procedures, mathematics, and statistics), 3 in environmental hygiene and engineering, 3 in medical entomology, 3 in environmental health practices and procedures, 2 in water supply and pollution control, 2 in chemical and radiological safety, 1 in food technology, and 1 in occupational health practices, for a total of 18 semester hours (3/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in environmental science (includes basic concepts of chemistry, biology, laboratory procedures, mathematics, and statistics), 3 in environmental hygiene and engineering, 3 in medical entomology, 3 in environmental health practices and procedures, 2 in water supply and pollution control, 2 in chemical and radiological safety, 1 in food technology, 1 in occupational health practices, 3 in pest management, and 3 for a practicum in environmental sanitation, for a total of 24 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in environmental science (includes basic concepts of chemistry, biology, laboratory procedures, mathematics, and statistics), 3 in environmental hygiene and engineering, 3 in medical entomology, 3 in environmental health practices and procedures, 2 in water supply and pollution control, 2 in chemical and radiological safety, 1 in food technology, 1 in occupational health practices, 3 in pest management, 3 for a practicum in environmental sanitation, and 2 in personnel administration, for a total of 26 semester hours (3/76).

MOS–91S–002

ENVIRONMENTAL HEALTH SPECIALIST

91S10
91S20
91S30
91S40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 913 (Health Services).

Description

Summary: Supervises, conducts, or assists in surveys and inspections and establishes control measures of environmental factors affecting health of persons in areas of concern. *Skill Level 10:* Conducts environmental health surveys and inspections and assists in environmental health laboratories by inspecting living quarters, food handling establishments, water systems, liquid and solid waste disposal systems, barber and beauty shops, swimming facilities, nurseries, and industrial areas; inspects personal hygiene practices; reports deviations from prescribed health standards and recommends corrective action; collects specimens and samples and submits them to the laboratory; mixes and applies insecticides, rodenticides, and repellants; performs bacteriological examination and chemical analysis of water samples and inspects for quarantine standards; performs operator maintenance on environmental health equipment; collects data for environmental health reports. *Skill Level 20:* Able to perform the duties required for Skill Level 10; conducts environmental health surveys, inspections, and laboratory procedures; performs stream surveys; inspects hospital infectious waste control and disposal procedures; interviews food poisoning patients and tuberculosis, VD, and other communicable disease patients and contacts; conducts related communicable disease investigations; completes case and contact reports; assists with monitoring electromagnetic radiation; identifies medically important parasites, disease vectors, and their animal hosts and recommends insect control procedures; inspects and provides technical assistance for water supply systems, liquid and solid waste collection, treatment, and disposal; inspects and provides technical assistance for collection, treatment, and disposal of hazardous waste; performs operator maintenance on environmental health equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises environmental health sections; collects and analyzes data on occupational illness, injuries, and environmental health; organizes work schedules; assigns duties; instructs in work techniques and procedures; plans and conducts training programs; supervises operational maintenance program of assigned equipment; evaluates personnel performance and prepares evaluation reports as well as administrative, technical, and personnel reports; prepares supply and equipment requisitions. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises environmental health activities; organizes environmental stress surveillance programs; coordinates toxicology data with poison control center; plans vector control program; analyzes and evaluates data pertaining to environmental health activities; determines personnel requirements and establishes work priorities; advises and assists professionals in supply, fiscal, technical, and administrative matters.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 15 semester hours in sanitation and disease control (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 18 semester hours in sanitation and disease control and 9 in environmental science (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 18 semester hours in sanitation and disease control, 9 in environmental science, 3 in human relations, and 3 in personnel administration, for a total of 33 semester hours (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, 3 semester hours in management problems and 3 for field experience in management (6/77).

MOS–91T–001

VETERINARY SPECIALIST

91T20
91T40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Cares for and treats animals in field veterinary service facilities, research laboratories, and veterinary clinics. *Skill Level 20:* Restrains, isolates, and quarantines animals which have signs of communicable diseases; performs emergency treatment procedures; sets up equipment and assists veterinarian with examinations, surgical procedures, immunizations, and procedures to identify, prevent, and control zoonotic diseases; collects specimens for laboratory analysis and conducts, evaluates, and records the results of macroscopic and microscopic studies; examines animals for external parasites and prepares and examines slides to identify microscopic external and internal parasites; administers medications and innoculations, as prescribed; maintains laboratory animal colony, under supervision; makes appropriate entries on animal health records. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises veterinary specialists in veterinary dispensary, animal hospital, laboratory animal colony, and animal farm; plans work schedules; trains veterinary specialists in work techniques and procedures; assures compliance with state, federal, and military regulations for handling, housing, and quarantine of animals; keeps inventory of all species of animals, laboratory and special diets, and equipment; evaluates animals to determine suitability for use in specific research projects; requisitions, stores, and issues supplies, equipment, and surgical instruments; reviews and prepares technical, administrative, and personnel reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours for a practicum in veterinary science, 3 in anatomy and physiology of animals, 2 in microbiology, 2 in animal hygiene, 2 in screening for diseases in animal populations, 2 in medical and surgical procedures for animals, 1 in animal nutrition, 1 in pharmacology, and 1 in administration of medications, for a total of 20 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours for a practicum in veterinary science, 3 in anatomy and physiology of animals, 3 in personnel supervision, 3 in administration of veterinary service facilities, 2 in microbiology, 2 in animal hygiene, 2 in screening for diseases in animal populations, 2 in medical and surgical procedures for animals, 1 in animal nutrition, 1 in pharmacology, and 1 in administration of medications, for a total of 26 semester hours. In the upper-division baccalaureate category, 2 semester hour in veterinary science research; *if the duty assignment is chief veterinary animal NCO at pay grade E-8,* 3 additional semester hours for field experience in management, for a total of 5 semester hours (3/76).

MOS–91T–002

ANIMAL SPECIALIST

91T10
91T20
91T30
91T40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 913 (Health Services).

Description

Summary: Under the direction of a veterinarian, supervises, performs, or assists in the care and treatment of small, medium-sized, and large animals. *Skill Level 10:* Asssits in providing animal care, management, and treatment by feeding and watering small and medium-sized animals; cleans and sanitizes animal facility, equipment, and utensils; receives and identifies incoming animals; quarantines incoming and sick animals; administers parenteral and oral medications and immunizations; collects and prepares blood and urine samples and fecal specimens; performs common laboratory tests, such as examination for microfilaria; assists in taking radiographs; prepares animals and equip-

ment for surgery and anesthesia; administers post-operative treatment and monitors post-operative recovery; provides emergency treatment when appropriate; records laboratory results in health records. *Skill Level 20:* Able to perform the duties required for Skill Level 10; provides animal care, management, and treatment; prepares health and vaccination certificates for veterinarian's signature; requisitions, receives, stores, and inventories pharmaceuticals, supplies, and equipment; prepares reagents, emergency drugs, and special animal rations; maintains animal files, including registration, health data, and immunization record; identifies common animal diseases and performs standard treatment techniques; debrides and sutures superficial wounds; calculates and administers drugs; induces general anesthesia and operates anesthetic equipment; assists in surgical procedures; maintains operating room supplies and cleanliness; performs appropriate laboratory analyses; informs owners of proper treatment instructions and medications prescribed by veterinarian; supervises animal registry and animal pound. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises small and medium-sized veterinary activities; organizes work schedules and assigns duties; instructs personnel in proper work techniques and procedures; evaluates personnel performance and prepares evaluation reports; establishes safety procedures; supervises operator maintenance on assigned equipment; conducts in-service training programs; supervises requisition of supplies and equipment; prepares, reviews, and consolidates technical, personnel, and administrative reports; inspects facility; assists veterinarian in personnel, supply, and fiscal matters. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises large veterinary activities.

Recommendation, Skill Level 10

In the vocational certificate category, 4 semester hours in veterinary laboratory techniques. In the lower-division baccalaureate/associate degree category, 2 semester hours in animal hygiene, 2 in animal diseases, 1 in microbiology, 1 in anatomy and physiology of animals, and 1 in administration of drugs, for a total of 7 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category, 4 semester hours in veterinary laboratory techniques and 3 in office practices and procedures. In the lower-division baccalaureate/associate degree category, 6 semester hours for a practicum in veterinary science, 4 in veterinary laboratory techniques, 4 in microbiology, 3 in anatomy and physiology of animals, 3 in administration of drugs, 2 in animal hygiene, 2 in animal diseases, and 1 in surgical procedures for animals, for a total of 25 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in veterinary laboratory techniques and 3 in office practices and procedures. In the lower-division baccalaureate/associate degree category, 6 semester hours for a practicum in veterinary science, 4 in veterinary laboratory techniques, 4 in microbiology, 3 in anatomy and physiology of animals, 3 in administration of drugs, 3 in personnel supervision, 3 in technical report writing, 3 in office management, 2 in animal hygiene, 2 in animal diseases, and 1 in surgical procedures for animals, for a total of 34 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, credit in veterinary facility management and for field experience in management on the basis of institutional evaluation (6/77).

MOS–91U–001

EAR, NOSE, AND THROAT SPECIALIST

91U20
91U40

Exhibit Dates: 9/75–8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Supervises or conducts routine diagnostic tests and assists in caring for and treating patients with ear, nose, and throat illnesses or injuries. *Skill Level 20:* Able to perform the duties required for 91B10 (Medical Specialist); administers and records patient responses to various labyrinthine tests; measures auditory acuity with audiometer and tuning forks, records test results, makes graphs and interpolates to determine patients' test scores and need for further audiometric testing; irrigates patients' ears; assists physician with clinical procedures, such as Proetz position treatment, antral irrigation, control of nose and throat hemorrhage, dilation of salivary gland ducts and removal of calculi, reduction of nasal fractures, biopsies of the ears, nose, and throat; assists surgeon in removing cysts, nasal polyps, and other minor surgery; assists with application of post-operative dressings and procedures; sterilizes and cares for instruments and equipment; performs and records results of special diagnostic tests, such as electronystagmography and acoustic bridge. *Skill Level 40:* Able to perform the duties required for Skill Level 20; assists in management of ENT clinics; instructs Skill Level 20 personnel in proper work techniques and procedures; organizes work schedules; assigns duties; sets priorities; inspects clinic and takes corrective action, as necessary; supervises maintenance programs of clinical equipment; requisitions, stores, and issues supplies; prepares administrative and patient reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours for clinical experience in otolaryngology, 4 for clinical experience in audiometry, 3 in principles of audiometry, 3 in diseases and injuries of the ears, nose, and throat, and 1 in anatomy and physiology of the ears, nose, and throat, for a total of 15 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 4 semester hours for clinical experience in otolaryngology, 4 for clinical experience in audiometry, 3 in principles of audiometry, 3 in diseases and injuries of the ears, nose, and throat, 1 in anatomy and physiology of the ears, nose, and throat, 2 in clinic management, and 1 in personnel supervision, for a total of 18 semester hours (3/76).

MOS–91U–002

EAR, NOSE, AND THROAT (ENT) SPECIALIST

91U10
91U20
91U30
91U40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Conducts routine diagnostic tests and assists physician in care and treatment of ear, nose, and throat patients. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); administers and records patient responses to various diagnostic and labyrinthine tests; measures auditory acuity; irrigates patients' ears; sets up equipment and assists physician with clinical procedures; obtains specimens for culture and prepares laboratory requests; prepares equipment trays and basins; assists the physician in the performance of minor surgery; sterilizes and cares for instruments and equipment; operates resuscitation and oxygenation equipment; performs and records the results of diagnostic tests; assists audiologist in hearing aid evaluation. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; administers prescribed medication. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists in managing a small ear, nose, and throat clinic; organizes work schedules; assigns duties; instructs subordinates in work techniques and procedures; supervises operational maintenance program of clinical equipment; prepares training programs; evaluates personnel performance and prepares evaluation reports; coordinates activities of ENT clinic with other elements of the medical treatment facility; assists physician with personnel, fiscal, and administrative matters; prepares, reviews, and consolidates technical and administrative reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in managing a large ear, nose, and throat clinic.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 4 semester hours for a practicum in otolaryngology, 3 in principles of otolaryngology, and 1 in anatomy and physiology, for a total of 8 semester hours (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 7 semester hours for a practicum in otolaryngology, 3 in principles of otolaryngology, 2 in principles of audiometry, and 1 in anatomy and physiology, for a total of 13 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 7 semester hours for a practicum in otolaryngology, 3 in principles of otolaryngology, 3 in personnel supervision, 2 in principles of audiometry, 2 in communication skills, 2 in principles of management, 1 in anatomy and physiology, and 1 in health care management, for a total of 21 semester hours. In the upper-division baccalaureate category, credit in patient care administration on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, credit in patient care administration and medical facility management on the basis of institutional evaluation (6/77).

MOS–91V–001

RESPIRATORY SPECIALIST

91V20
91V40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Operates equipment to deliver medicinal gases and drugs in aerosoled mist to respiratory system and performs diagnostic tests. *Skill Level 20:* Able to perform the duties required for 91B10 (Medical Specialist); administers oxygen and aerosols containing prescribed medications to aid ventilation; assists in operation of mechanical respiratory aids; observes and records response of patients and conditions requiring professional attention; operates spirometer to obtain diagnostic data; performs blood gas analyses; calculates respiratory volumes; prepares records of test results. *Skill Level 40:* Able to perform the duties required for Skill Level 20; plans work schedules; makes duty assignments; trains subordinate personnel in techniques and procedures; provides orientation to other hospital person-

nel; instructs on precautions and enforces safety regulations; responsible for purchases and inventories; prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 2 semester hours in basic sciences (mathematics, chemistry, physics), 4 in anatomy and physiology, 1 in pharmacology, 2 in microbiology and immunology, 8 in cardiopulmonary physiology and resuscitation, 4 in clinical medicine, 1 in physical therapy, 4 in respiration therapy, and 8 in clinical experience in respiration therapy, for a total of 34 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 20, plus 3 semester hours in personnel supervision and 3 in human relations, for a total of 40 semester hours (3/76).

MOS–91V–002

RESPIRATORY SPECIALIST

91V10
91V20
91V30
91V40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Assists with the care and treatment of patients requiring respiratory assistance; performs pulmonary function tests under the supervision of a physician or anesthetist. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); administers respiratory therapy and performs pulmonary function tests; receives and interprets treatment request; prepares and tests equipment; mixes prescribed cardiopulmonary medications; verifies identity and instructs, orients, and positions patient for therapy; adjusts controls of intermittent positive pressure breathing (IPPB) apparatus and administers therapy; assesses tidal volume and adjusts apparatus to meet ventilatory changes; observes, corrects, and records patient response; administers aerosol and gas therapy; adjusts and maintains equipment during operation and observes safety regulations; administers pulmonary drainage procedures; percusses and vibrates patient; collects and visually analyzes sputum specimens for foreign substances; assists with cardiopulmonary resuscitation, evaluates effectiveness, and records results; prepares and tests nebulizer for administration of medication and adjusts for drug concentration; follows isolation procedures; disassembles, cleans, sterilizes, assembles, and tests respiratory therapy equipment; adjusts volume ventilator controls for initial operation and during therapy; observes and corrects patient response and evaluates ventilator effectiveness; weans patient from ventilator dependence; prepares, tests, and administers special volume ventilator equipment, such as chronic positive pressure breathing (CPPB), intermittent mandatory ventilation (IMV), chronic positive airway pressure (CPAP), and positive and expiratory pressure (PEEP); applies electromechanical monitors; evaluates airway patency; instills solution prior to tracheobronchial aspiration; hyperinflates and hyperoxygenates patient; aspirates tracheobronchial passage; inflates and deflates tracheostomy cuff; provides tracheostomy tube and stoma care; evaluates patient cardiorespiratory status; utilizes emergency ventilators; evaluates resuscitator's effectiveness; implements culturing procedures; applies corrective actions for contaminated equipment; reads and evaluates patient charts; instructs patient and family in breathing exercises and postural drainage procedures and evaluates ability to operate home therapy equipment; maintains safe, clean, and orderly work area; stores and maintains supplies and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; calibrates and slopes arterial blood gas analyzer; performs arterial blood gas procedures and interprets and records results; applies safety precautions relevant to pulmonary function testing; administers basic pulmonary function test, calculates data, and compares results; performs auscultation of lungs; receives and issues supplies and equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists in defibrillation of patient; plans and monitors culturing procedures; determines corrective action for contaminated equipment; inspects working areas to insure orderly, clean, and safe environment for patients; supervises operational maintenance program of clinical equipment; prepares and conducts training programs; evaluates personnel performance and prepares evaluation reports; prepares administrative, technical, and patient reports; supervises packing, unpacking, loading, unloading, and setting up of unit equipment and shelters. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises respiratory unit activities; applies and monitors safety procedures relevant to modular pulmonary function testing; administers test, calculates test data, records results, and compares results with normal predicted values; develops, implements, and evaluates training programs; compiles management data, evaluates and determines personnel requirements, and assists in the planning and operation of respiratory unit; coordinates activities of unit with other elements of the medical treatment facility; advises and assists professional staff in supply economy procedures and fiscal, technical, and administrative matters; reviews, consolidates, and prepares technical, personnel, and administrative reports.

Recommendation, Skill Level 10

In the vocational certificate category, 30 semester hours in a respiratory therapy program. In the lower-division baccalaureate/associate degree category, 8 semester hours for clinical experience in respiratory therapy, 4 in respiratory therapy in clinical medicine, 4 in anatomy and physiology, 3 in principles of pulmonary therapy, 3 in principles of ventilation therapy, 3 in cardiopulmonary physiology, 2 in microbiology and immunology, 2 in basic sciences (chemistry and physics), and 1 in pharmacology, for a total of 30 semester hours (6/77).

Recommendation, Skill Levels 20 and 30

In the vocational certificate category, 33 semester hours in a respiratory therapy program. In the lower-division baccalaureate/associate degree category, 11 semester hours for clinical experience in respiratory therapy, 4 in respiratory therapy in clinical medicine, 4 in anatomy and physiology, 3 in principles of pulmonary therapy, 3 in principles of ventilation therapy, 3 in cardiopulmonary physiology, 2 in microbiology and immunology, 2 in basic sciences (chemistry and physics), and 1 in pharmacology, for a total of 33 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 20 and 30. In the lower-division baccalaureate/associate degree category, 11 semester hours for clinical experience in respiratory therapy, 4 in respiratory therapy in clinical medicine, 4 in anatomy and physiology, 3 in principles of pulmonary therapy, 3 in principles of ventilation therapy, 3 in cardiopulmonary physiology, 2 in microbiology and immunology, 2 in basic sciences (chemistry and physics), 1 in pharmacology, 3 in personnel supervision, and 3 in clinic management, for a total of 39 semester hours. In the upper-division baccalaureate category, credit in patient care administration, introduction to management, and for field experience in management on the basis of institutional evaluation (6/77).

MOS–91W–001

NUCLEAR MEDICINE SPECIALIST

91W20
91W40

Exhibit Dates: 9/75–8/76.

Career Management Field: 91 (Medical), *subfield* 914 (Medical Services).

Description

Summary: Supervises or performs medical diagnostic and therapeutic procedures with isotopes. *Skill Level 20:* Able to perform the duties required for 91P20 (X-Ray Specialist) or 92B20 (Medical Laboratory Specialist); uses radioactive materials to aid in diagnosis and treatment of patients; operates radiological imaging devices and counters; makes scans of organs, such as brain, liver, thyroid, kidneys, pancreas, spleen, and lungs; labels pharmaceuticals with radioactive materials; calculates dosage, prepares dilution, and administers radiopharmaceuticals orally or by injection, under direct supervision of physician; performs blood volume determination, Schilling test, thyroid uptake, red cell survival time, and fat metabolism studies on collected specimens; performs assay procedures, such as thyroxine, cortisal, digoxin and insulin determinations, on biologic specimens, in vitro, using beta and gamma radioassay techniques; determines and records activity of radioisotope stocks and waste; operates detectors to determine presence of health hazards from therapeutic, diagnostic, and experimental radioactive isotopes; measures and records degree of contamination, controls spread of contamination, and institutes decontamination procedures. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises operation of nuclear medicine facility; evaluates accuracy, efficiency, and safety of all techniques; conducts radiation safety program; requisitions, accounts for, and stores radioisotopes; disposes of stocks when radioactivity decays to nonusable level; reviews, consolidates, and prepares technical, administrative, and personnel reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 12 semester hours for a practicum in nuclear medicine, 8 in nuclear medicine methodology, 2 in nuclear physics, 2 in nuclear instrumentation, 1 in radiopharmaceuticals, and 1 in radiation safety, for a total of 26 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours for a practicum in nuclear medicine, 8 in nuclear medicine methodology, 3 in interpersonal relationships in health care, 3 in personnel supervision, 2 in nuclear physics, 2 in nuclear instrumentation, 2 in radiation safety, and 1 in radiopharmaceuticals, for a total of 33 semester hours (3/76).

MOS–91W–002

NUCLEAR MEDICINE SPECIALIST

91W10
91W20
91W30
91W40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Supervises or performs medical diagnostic and therapeutic procedures with radioactive isotopes. *Skill Level 10:* Able to perform the duties required for 91P10 (X-Ray Specialist) or 92B10 (Medical Laboratory Specialist) or 91B10 (Medical Specialist); prepares and administers radioisotopes to patients and operates radiological imaging devices and

counters. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs operational checks, standardizing procedures, and preventive maintenance on equipment; calculates dosage, prepares dilution, and administers it under direct supervision of physician; operates imaging device to make scans of organs, such as brain, liver, thyroid, kidneys, pancreas, spleen, and lungs; makes photographs of images; collects appropriate specimens for procedures, such as blood volume determination, Schilling test, thyroid uptake, red cell survival time, and fat metabolism studies; performs assay procedures, using beta and gamma radioassay techniques; determines activity of radioisotope stocks and waste; determines presence of health hazards from therapeutic, diagnostic, and experimental radioactive isotopes; measures and records degree of contamination, controls spread of contamination, and institutes decontamination procedures. *Skill Level 30:* Able to perform the duties required for Skill Level 20 and provides technical guidance to subordinate personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists with the management of a nuclear medicine facility; requisitions, accounts for, and stores radioisotopes used in the laboratory; is responsible for radiation safety program in laboratory area; supervises radiation survey, monitoring, and contamination control procedures; disposes of stocks when radioactivity decays to nonusable level; establishes work priorities and procedures; organizes work schedules; assigns duties; establishes safety procedures; instructs subordinates in work techniques and procedures; supervises operational maintenance program of clinical equipment; evaluates personnel performance and prepares evaluation reports; prepares patient, technical, and administrative reports; coordinates activities of nuclear medicine facility with other elements of the medical treatment facility; advises and assists professional staff with technical, administrative, and fiscal matters.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours for a clinical internship, 6 in algebra, and 6 in physics, and additional credit in nuclear medicine technology, radiology, and occupational health and safety on the basis of institutional evaluation, for a minimum total of 18 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours for a clinical internship, 6 in nuclear medicine procedures, 6 in algebra, and 6 in physics, and additional credit in nuclear medicine technology, radiology, and occupational health and safety on the basis of institutional evaluation, for a minimum total of 24 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours for a clinical internship, 6 in nuclear medicine procedures, 6 in algebra, 6 in physics, and 3 in advanced nuclear medicine procedures, and additional credit in nuclear medicine technology, radiology, and occupational health and safety on the basis of institutional evaluation, for a minimum total of 27 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 6 semester hours for a clinical internship, 6 in nuclear medicine procedures, 6 in algebra, 6 in physics, 3 in advanced nuclear medicine procedures, 3 in personnel supervision, and 3 in human relations, and additional credit in nuclear medicine technology, radiology, and occupational health and safety on the basis of institutional evaluation, for a minimum total of 33 semester hours. In the upper-division baccalaureate category, 3 semester hours in administration of nuclear medicine facility (6/77).

MOS–91Y–001

EYE SPECIALIST

91Y20
91Y40

Exhibit Dates: 9/75–8/76.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Supervises or conducts routine diagnostic tests and assists in care and treatment of ophthalmology or optometry patients. *Skill Level 20:* Able to perform the duties required for 91B10 (Medical Specialist); measures visual acuity; neutralizes and records power of corrective lenses or fragments of lenses; measures and records color vision, accommodative ability, muscle balance, intraocular pressure, limits of central and peripheral visual field, corneal curvature and vertical height of palpebral fissure; takes necessary measurements for fitting spectacles; treats minor eye ailments and injuries; assists physician in performing minor surgery; maintains ophthalmology and optometry equipment and instruments. *Skill Level 40:* Able to perform the duties required for Skill Level 20; assists in management of eye clinic; organizes work schedules and sets priorities; assigns duties; instructs Skill Level 20 personnel in proper work techniques and procedures; inspects clinic and initiates corrective action, if necessary; supervises maintenance of clinical equipment; requisitions, stores, and issues supplies; prepares administrative and patient reports.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours for clinical experience in ophthalmology, 3 for clinical experience in optometry, 2 in anatomy and physiology of the eye, 2 in principles of ophthalmology, and 2 in principles of optometry, for a total of 12 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours for clinical experience in ophthalmology, 3 for clinical experience in optometry, 2 in anatomy and physiology of the eye, 2 in principles of ophthalmology, 2 in principles of optometry, 2 in clinic management, and 1 in personnel supervision, for a total of 15 semester hours (3/76).

MOS–91Y–002

EYE SPECIALIST

91Y10
91Y20
91Y30
91Y40

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Summary: Conducts routine diagnostic tests and assists in care and treatment of ophthalmology or optometry patients. *Skill Level 10:* Able to perform the duties required for 91B10 (Medical Specialist); conducts routine diagnostic tests, administers prescribed medications, and assists in caring for eye patients; determines purpose of patient visit; administers various visual tests and records results; measures accommodative ability; measures muscle balance with and without correction, near and distant; measures limits of central and peripheral field, intraocular pressure, interpupillary distance, bridge size, and temple length; performs minor repairs and adjustments to spectacles; instills drops and ointments in eyes as prescribed; removes nonimbedded foreign objects from surface of eye or underside of lid; assists in obtaining specimens; assists the physician in performing minor surgery; maintains opthalmology and optometry equipment and instruments; performs prescribed sterilization procedures; performs ophthalmic photography; measures prismatic power of lenses; operates resuscitation and oxygenation equipment; instructs patients in insertion, removal, and care of contact lenses; prepares slides for wrights and grams staining; applies and removes dressings as directed; performs emergency procedures as required; maintains inventory of supplies and equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; assists in managing a small ophthalmology or optometry clinic; organizes work schedules and determines personnel requirements; assigns duties and establishes work priorities; instructs subordinates in work techniques and procedures; supervises operational maintenance program of clinical equipment; evaluates personnel performance and prepares evaluation reports; coordinates activities of ophthalmology and optometry clinics with other elements of the medical treatment facility; assists physician with personnel, fiscal, and administrative matters; prepares patient and administrative reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; assists in managing a large ophthalmology or optometry clinic.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of ophthalmology, 4 for a practicum in ophthalmology, 4 for a practicum in optometry, 2 in principles of optometry, and 1 in anatomy and physiology, for a total of 15 semester hours (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of ophthalmology, 6 for a practicum in ophthalmology, 6 for a practicum in optometry, 2 in principles of optometry, and 1 in anatomy and physiology, for a total of 19 semester hours (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 4 semester hours in principles of ophthalmology, 6 for a practicum in ophthalmology, 6 for a practicum in optometry, 2 in principles of optometry, 1 in anatomy and physiology, 3 in personnel supervision, 2 in communication skills, 2 in principles of management, and 1 in health care administration, for a total of 27 semester hours. In the upper-division baccalaureate category, credit in patient care administration on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 30. In the upper-division baccalaureate category, credit in patient care administration and medical facility management on the basis of institutional evaluation (6/77).

MOS–91Z–001

MEDICAL SENIOR SERGEANT

91Z50

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 91Z was discontinued and its functions were incorporated into MOS 91B, Medical Specialist.)

Career Management Field: 91 (Medical), *subfield* 912 (Patient Care).

Description

Supervises general administrative functions in a medical or treatment facility; advises supe-

riors on administrative matters; establishes and supervises the maintenance of medical records and medical reporting systems; prepares periodic and special reports concerning assigned personnel, patients, and medical care and treatment operations; evaluates training programs and requirements and supervises or conducts individual or group training; assists command surgeon in technical supervision of subordinate medical activities, staff, and unit operations; makes recommendations for improving working conditions and procedures; determines requirements for and adequacy of medical service supporting elements such as ambulance, supply, and transportation. NOTE: Required to have attained Skill Level 40 or 50 in at least one other MOS in the medical career management field (91).

Recommendation

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 26 semester hours in administration or management, 12 for an internship in medical administration, 6 in accounting, 6 in business machines operation, and 6 in medical records administration, for a total of 56 semester hours. In the upper-division baccalaureate category, a minimum of 17 semester hours in administration or management, 6 for an internship in medical administration, and 3 in medical records administration, for a minimum total of 26 semester hours; additional credit in accounting, business machines operation, administration or management, medical records administration, and for an internship in medical administration on the basis of institutional evaluation (2/75).

MOS–92B–001

MEDICAL LABORATORY SPECIALIST

92B20
92B30
92B40

Exhibit Dates: 10/73–8/76.

Career Management Field: 91 (Medical), *subfield* 914 (Medical Services).

Description

Summary: Supervises or performs blood banking procedures and elementary and advanced examinations of biological specimens to aid in diagnosis, treatment, and prevention of disease. *Skill Level 20:* Performs blood banking and elementary laboratory procedures related to immunohematology, hematology, biochemistry, serology, bacteriology, and parasitology; selects, pretests, and bleeds donors and stores and issues blood; determines ABO group and Rh type of donor and recipient; performs immunohematology techniques, such as antibody detection and identification, antibody titers, and compatibility testing; prepares and stores blood components; performs hematology tests and determinations, such as hemoglobin, cell counts, and sedimentation rate; conducts elementary biochemical tests relating to blood glucose, blood urea nitrogen, amylase, sodium and potassium chloride, and carbon dioxide; performs serology procedures, such as preparation of antigen emulsion, use of control sera, and cardiolipin microflocculation tests; tests urine and urine sediment to determine specific gravity, sugar, protein, ketone, blood, pathological constituents, and presence of formed elements and amorphous sediment; examines feces for presence of protozoa and helminths; prepares and sterilizes synthetic culture media; introduces specimens into appropriate media, incubates culture, prepares smears, makes stains, and examines slides under microscope; isolates and identifies bacterial organisms of the cocci family and common gram-negative microorganisms; calculates and records findings; collects and processes specimens for shipment to consultant laboratories. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs advanced procedures in all phases of clinical laboratory testing, including virology, mycology, histology, toxicology, and radiobiology; makes subcultures, tissue cultures, antimicrobial sensitivity determinations, and animal inoculations and autopsies; performs clinical parasitology procedures; performs fluorescent antibody agglutination, complement fixation and other serological tests; processes tissue removed by biopsy, from autopsy, or discharged from body; performs biochemical analyses of blood, urine, sweat, spinal fluid, and tissue for carbohydrates, proteins, hemoglobins, lipids, hormones, minerals, electrolytes, vitamins, enzymes, pigments, and drugs; performs metabolic and liver and renal function tests; screens exfoliative cytology specimens; performs complete blood counts and identifies and reports erythrocyte and leukocyte maturation stages in normal and abnormal cells; performs special procedures in staining, preparation of bone marrow films, erythrocyte osmotic fragility studies, lupus erythematosus films, hemoglobin electrophoresis, detection of coagulation disorders, and abnormal cell morphology in anemias and leukemias; analyzes air, food, water, and biological fluids for radioactivity and makes radionuclide determinations. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises medical laboratory activities; logs requests for laboratory procedures; establishes priorities; distributes workload; forwards specimens to consultant laboratories, as required; supervises Skill Level 20 and 30 personnel; conducts quality control program to assure validity of clinical laboratory results; assists with inspection of laboratory, notes discrepancies, and initiates corrective action; requisitions, stores, and issues supplies and equipment; reviews, consolidates, and prepares technical, administrative, and personnel reports.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 4 semester hours in basic procedures in hematology, 4 in basic procedures in clinical chemistry and urinalysis, 3 in basic procedures in immunohematology and serology, 3 in basic procedures in medical bacteriology, and 2 in basic procedures in parasitology, for a total of 16 semester hours (3/76).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 16 semester hours in advanced clinical chemistry, 8 in advanced hematology, 8 in advanced medical bacteriology, 4 in introduction to cytology, 4 in parasitology, 4 in immunology, 4 in histopathology, 4 in immunohematology and blood banking, 4 in mycology, 4 in virology, and 2 in anatomy and physiology, for a total of 62 semester hours (3/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 16 semester hours in advanced clinical chemistry, 8 in advanced hematology, 8 in advanced medical bacteriology, 4 in introduction to cytology, 4 in parasitology, 4 in immunology, 4 in histopathology, 4 in immunohematology and blood banking, 4 in mycology, 4 in virology, 2 in anatomy and physiology, 2 in medical laboratory management, and 1 in personnel supervision, for a total of 65 semester hours (3/76).

MOS–92B–002

MEDICAL LABORATORY SPECIALIST

92B10
92B20
92B30
92B40
92B50

Exhibit Dates: 9/76–Present.

Career Management Field: 91 (Medical), *subfield* 913 (Health Services).

Description

Summary: Performs blood banking procedures and elementary and advanced examinations of biological and environmental specimens to aid in diagnosis, treatment, and prevention of disease. *Skill Level 10:* Receives, logs, and files requests for laboratory examination and analysis; receives, collects, and labels specimens; calculates and records results of analyses; prepares laboratory specimens for the determination of parasites, plasmodium species, ABO group and Rh type blood; performs anti-human globulin, microhematocrit, and manual hemoglobulin procedures; performs manual white-blood-cell counts; prepares and examines thin-blood film slides and stain procedures; performs erythrocyte sedimentation rate procedures; determines specific gravity and performs chemical tests on urine to detect glucose, protein, blood, ketones, mucin, or melanogen; prepares urine samples for determination of pH, microscopic examination, cells, and mucous threads; innoculates bacteriological specimens and stains bacteriological smears and examines for stain reaction; prepares and sterilizes culture media; performs manual biochemical determinations on blood; examines semiautomatically for chlorides, sodium, and potassium; performs basic serological screening for syphilis and rheumatoid arthritis; performs basic preventive maintenance on laboratory equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; performs blood banking and elementary laboratory procedures related to immunohematology, hematology, biochemistry, serology, bacteriology, and parasitology; selects, pretests, and bleeds donors, and stores and issues blood; determines ABO group and Rh type of donor and recipient; performs immunohematology techniques, such as antibody titers and compatibility testing; prepares and stores blood components; performs ABO subgrouping and DU testing to detect antibodies; performs complete blood count and cell counts; performs coagulation tests; uses automated, semiautomated, or manual procedures to determine cholesterol, total protein and A/G ratio, blood pH, pO_2, and pCO_2; performs basic serology procedures for syphilis, pregnancy, infectious mononucleosis, and arthritis; prepares red cell suspensions and dilutions; examines body fluids and feces for presence of protozoa, helminths, and extraintestinal parasites; prepares and sterilizes culture media; innoculates specimens for microscopic examination; isolates, identifies, and studies microorganisms such as streptococcus, staphylococcus, pneumococcus, and common gram-negative organisms. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises small medical laboratory or performs advanced procedures in all phases of blood banking and clinical laboratory testing, including virology, mycology, histology, and toxicology; performs complex laboratory tests, examinations, and analyses under general supervision and provides technical assistance to subordinate personnel; performs cultures, antimicrobial sensitivity determinations, and animal inoculations, including those taken from autopsies; performs clinical parasitology procedures; performs fluorescent antibody agglutination, complement fixation, and other serological tests; processes tissue; performs biochemical analysis of blood, urine, sweat, and spinal fluid for carbohydrates, proteins, hemoglobins, lipids, hormones, minerals, electrolytes, vitamins, enzymes, pigments, and drugs; performs metabolic, liver function, and renal function tests; screens exfoliative cytology specimens; performs complete blood counts and identifies maturation stages in normal and abnormal cells; performs special procedures in staining and preparing bone marrow smears, erythrocyte osmotic fragility studies, lupus erythematosus determinations, detection of coagulation disorders, complex electrophoresis studies, and abnormal cell morphology in anemias and leukemias; analyzes air, food, water, and biological fluids for contaminants; supervises operator maintenance procedures. *Skill Level 40:* Able to

perform the duties required for Skill Level 30; supervises medium-sized medical laboratory; develops and supervises quality control measures and procedures; assigns duties; organizes work schedules; instructs subordinates; inspects laboratory; supervises operational maintenance; determines personnel requirements and prepares and conducts training program; evaluates personnel performance; prepares administrative, technical, and personnel reports; coordinates activities of medical laboratories with other units of medical facility; assists laboratory officer in administrative matters. *Skill Level 50:* Able to perform the duties required for Skill Level 40; supervises large medical laboratory activities.

Recommendation, Skill Level 10

In the vocational certificate category, 10 semester hours in a certified laboratory assistant program. In the lower-division baccalaureate/associate degree category, 15 semester hours in a medical laboratory technician program (basic procedures in hematology, clinical chemistry and urinalysis, immunohematology and serology, medical bacteriology, and parasitology) (6/77).

Recommendation, Skill Level 20

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 24 semester hours in a medical laboratory technician program (hematology, immunology, and immunohematology and blood banking; and basic procedures in hematology, clinical chemistry and urinalysis, immunohematology and serology, medical bacteriology, and parasitology) (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 54 semester hours in a medical laboratory technician program (hematology, immunology, immunohematology and blood banking, histopathology, mycology, virology, anatomy and physiology, cytology, parasitology, advanced clinical chemistry, advanced medical bacteriology, and advanced hematology; and basic procedures in hematology, clinical chemistry and urinalysis, immunohematology and serology, medical bacteriology, and parasitology). In the upper-division baccalaureate category, credit in medical technology, chemistry, and biology on the basis of institutional evaluation (6/77).

Recommendation, Skill Levels 40 and 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 10. In the lower-division baccalaureate/associate degree category, 54 semester hours in a medical laboratory technician program (hematology, immunology, immunohematology and blood banking, histopathology, mycology, virology, anatomy and physiology, cytology, parasitology, advanced clinical chemistry, advanced medical bacteriology, advanced hematology; and basic procedures in hematology, clinical chemistry and urinalysis, immunohematology and serology, medical bacteriology, and parasitology), 3 in personnel supervision, and 3 in principles of administration, for a total of 60 semester hours. In the upper-division baccalaureate category, credit in medical technology, chemistry, biology, and medical facility management on the basis of institutional evaluation (6/77).

MOS–92C–001

PETROLEUM LABORATORY SPECIALIST

92C20
92C40

Exhibit Dates: 10/73–8/76.

Career Management Field: 92 (Petroleum).

Description

Summary: Performs or supervises physical and chemical tests on petroleum products to determine suitability for intended use. *Skill Level 20:* Prepares reagents and glassware; calibrates and standardizes laboratory instruments; obtains petroleum test samples; performs complete specification tests, including determination of tetraethyl lead in gasoline; oxidation stability of petroleum products, and water separation; performs preventive maintenance on technical laboratory equipment; uses adequate fire prevention and safety control measures; prepares layouts and installs equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises petroleum laboratory testing activities and participates in quality surveillance programs; evaluates test results; supervises injection of antiicing additives and corrosion inhibitors during pipeline transfers; establishes stock levels, and requisitions and stores equipment, chemicals, reagents, and reference fuels; determines methods of reclaiming or downgrading contaminated and deteriorated petroleum products; plans work schedules, assigns duties, and trains personnel in laboratory techniques; prepares and reviews administrative and technical reports; supervises from four to ten or more persons.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 6 semester hours in petroleum products analysis, 3 in basic analytical laboratory, 2 in basic chemistry, 1 in chemical safety, and 1 in first aid, for a total of 13 semester hours (5/76).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 6 semester hours in petroleum products analysis, 3 in basic analytical laboratory, 2 in basic chemistry, 1 in chemical safety, 1 in first aid, 3 for field experience in management, 3 in human relations, and 3 in personnel supervision, for a total of 22 semester hours (5/76).

MOS–92C–002

PETROLEUM LABORATORY SPECIALIST

92C10
92C20
92C30
92C40

Exhibit Dates: 9/76–Present. Pending evaluation.

MOS–92D–001

CHEMICAL LABORATORY SPECIALIST

92D20
92D40
92D50

Exhibit Dates: 10/73–2/77.

Career Management Field: 54 (Chemical).

Description

Summary: Supervises or performs routine chemical and physical tests in a chemical laboratory. *Skill Level 20:* Balances equations; knows and uses basic gas laws; performs stoichiometric calculations; sets up laboratory equipment for chemical and physical tests; prepares and labels standard solutions and reagents; performs field sampling; performs routine laboratory analysis of chemicals with established formulas and procedures; conducts physical tests to determine durability, strength, and resistance to effects of climate or chemicals of items such as clothing, shoes, paints, plastics, metals, and ceramics; performs quantitative and qualitative analyses, including microanalytical; performs toxicological studies to determine irritability and permeability; determines beta and gamma energies and half-lives of unknown isotopes; keeps records and repair reports; requisitions, receives, stores, and inventories chemical supplies and equipment; understands and applies safety procedures. NOTE: May have progressed to 92D20 from 54A10 (Chemical Operations Assistant). *Skill Level 40:* Able to perform the duties required for Skill Level 20; is a first-line supervisor of chemical laboratory personnel; estimates supply requirements based on current and projected workloads; improvises apparatus and procedures for special purposes; instructs subordinates in laboratory techniques and procedures. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager involved in planning, coordinating, and supervising the activities of a chemical laboratory; advises company commander on all matters concerning enlisted personnel; assists company commander in planning and implementing unit training; coordinates operation of a unit food service and supply activities.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in applied technical mathematics and 1 in chemical safety. In the lower-division baccalaureate/associate degree category, 4 semester hours in introductory chemistry, 4 in analytical chemistry, 4 in applied organic chemistry, 2 in basic instrumental analysis, 2 in applied technical mathematics, 1 in radiochemical laboratory, and 1 in chemical safety, for a total of 18 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 4 semester hours in introductory chemistry, 4 in analytical chemistry, 4 in applied organic chemistry, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, 2 in basic instrumental analysis, 2 in applied technical mathematics, 1 in radiochemical laboratory, and 1 in chemical safety, for a total of 27 semester hours (5/76).

Recommendation, Skill Level 50

In the vocational certificate category and in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, and 3 in personnel management, for a total of 12 semester hours (5/76).

MOS–92D–002

CHEMICAL LABORATORY SPECIALIST

92D10
92D20
92D30

Exhibit Dates: 3/77–Present. Pending evaluation.

MOS–93E–001

METEOROLOGICAL OBSERVER

93E20
93E30
93E40
93E50

Exhibit Dates: 10/73–Present.

Career Management Field: 00 (Exceptional Management Specialties), *subfield* 000 (Special Assignment).

Description

Summary: Supervises or performs meteorological observations and weather forecasts. *Skill Level 20:* Performs routine and special weather observations, employing basic meteorological principles; takes upper air observations by pilot balloon and radiosonde systems; computes me-

teorological ballistic data; encodes meteorological data for transmission; interprets weather data and plots surface and upper air charts; performs preventive maintenance on standard and special meteorological equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; provides weather forecasts from surface and upper air meteorological charts; performs climatological analyses for use in research and development activities; prepares and issues routine and severe weather warnings. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; supervises the making and reporting of meteorological observations, forecasts, and special warnings; prepares, administers, and monitors meteorological team operations; supervises the preparation of routine and special reports; conducts on-the-job training; supervises 11 or more persons. *Skill Level 50:* Able to perform the duties required for Skill Level 30 or 40; serves as the principal noncommissioned officer of meteorological teams; at the division level, coordinates activities and use of meteorological teams; gathers and analyzes material for the improvement of meteorological training; supervises 29 or more persons.

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in meteorology, 3 in meteorological instruments, 3 in weather observing, 3 in mathematics, and 2 in electrical and electronics laboratory, for a total of 14 semester hours (11/75).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in meteorology, 3 in meteorological instruments, 3 in weather observing, 3 in mathematics, 3 in weather station operation, 3 in climatology, and 2 in electrical and electronics laboratory, for a total of 20 semester hours (11/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in meteorology, 3 in meteorological instruments, 3 in weather observing, 3 in mathematics, 3 in weather station operation, 3 in climatology, 3 in human relations, 3 for field experience in management, and 2 in electrical and electronics laboratory, for a total of 26 semester hours (11/75).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in meteorology, 3 in meteorological instruments, 3 in weather observing, 3 in mathematics, 3 in weather station operation, 3 in climatology, 3 in human relations, 3 for field experience in management, 3 in introduction to management, and 2 in electrical or electronics laboratory, for a total of 29 semester hours. In the upper-division baccalaureate category, 3 semester hours in human relations and 3 for field experience in management (11/75).

MOS–93F–001

BALLISTIC METEOROLOGY CREWMAN

93F20

93F40

Exhibit Dates: 10/73–8/76.

Career Management Field: 17 (Combat Surveillance and Target Acquisition), *subfield* 172 (Target Acquisition).

Description

Summary: Supervises or participates in the operation of a meteorology observation station to obtain and report atmospheric data for artillery target acquisition. *Skill Level 20:* Operates and calibrates meteorological equipment; assembles, tests, and calibrates radiosonde transmitter and recorder; uses basic principles of meteorology in the evaluation and conversion of radiosonde data into data on temperature, humidity, atmospheric pressure, and wind speed and direction; performs operator maintenance on radio direction finder and other meteorological equipment; records data on charts. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises approximately 12 persons in the operation of the meteorological observation station and the use of both ground and airborne equipment; using a basic knowledge of meteorology, assures proper calibration of electronic equipment and computation of recorded data; supervises routine maintenance of meteorological and communication equipment; establishes and maintains liaison with other weather installations both within and outside the Army.

Recommendation, Skill Level 20

In the vocational certificate category, 2 semester hours in meteorology, 2 in general science, 2 in instrumentation and calibration, and 1 in technical writing, for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in meteorology, 2 in general science, 2 in instrumentation and calibration, 2 in map reading, 1 in technical writing, and 1 in electronics, for a total of 10 semester hours (3/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 2 semester hours in meteorology, 2 in general science, 2 in instrumentation and calibration, 3 in personnel supervision, 1 in technical writing, 3 in human relations, 2 in map reading, 3 for field experience in management, and 2 in electronics, for a total of 20 semester hours (3/76).

MOS–93F–002

FIELD ARTILLERY METEOROLOGICAL CREWMAN

93F10

93F20

93F30

93F40

Exhibit Dates: 9/76–Present.

Career Management Field: 13 (Field Artillery), *subfield* 132 (Field Artillery Target Acquisition Operations).

Description

Summary: Supervises or participates in operation of field artillery meteorological observation station. *Skill Level 10:* Operates meteorological equipment in meteorological observation station; participates in assembly and emplacement of meteorological equipment and appropriate generators; operates recorders; plots pressure and wind data; assembles and disassembles balloon inflation and launching equipment; inflates and releases balloons; assembles, tests, and adjusts radiosonde transmitter; evaluates and converts raw temperature, density, and wind data; performs operator maintenance on equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as team chief during periods of extended operation; checks data and records; examines samples of data for quality control. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises operation of meteorological section or station; selects station site; supervises emplacement, installation, calibration, maintenance, and operation of equipment; supervises preparation and distribution of ballistic meteorological messages; assigns, instructs, and supervises crewmen; reviews, consolidates, and prepares technical, personnel, and administrative reports.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 1 semester hour in meteorology, 2 in general science, 2 in instrumentation and calibration, 1 in technical writing, and 1 in map reading, for a total of 7 semester hours (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 1 semester hour in meteorology, 2 in general science, 2 in instrumentation and calibration, 1 in technical writing, 1 in map reading, and 2 in personnel supervision, for a total of 9 semester hours (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, 2 semester hours in meteorology, 2 in general science, 2 in instrumentation and calibration, 1 in technical writing, and 1 in map reading, for a total of 8 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in meteorology, 2 in general science, 2 in instrumentation and calibration, 1 in technical writing, 1 in map reading, 4 in personnel supervision, 3 in human relations, and 3 for field experience in management, for a total of 18 semester hours (4/77).

MOS–93H–001

AIR TRAFFIC CONTROL (ATC) TOWER OPERATOR

93H20

93H40

Exhibit Dates: 10/73–2/76.

Career Management Field: 65 (Transportation), *subfield* 655 (Air Operations).

Description

Summary: Provides control tower and nonradar approach control services for military and civilian air traffic. *Skill Level 20:* Holds an FAA control tower operator certificate; controls air traffic operating under visual flight rules in the vicinity of the control tower; coordinates movements of aircraft operating under instrument flight rules with civil air traffic facilities; issues instructions to aircraft in accordance with published FAA and Army procedures and regulations; operates radio equipment, light signals, airport lighting systems, interphone equipment; keeps records, statistics, and recordings of radio communications; uses the operational features of various electronic navigation facilities and systems; informs aircraft personnel of hazardous conditions; prepares notices to airmen (NOTAMS). *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises Skill Level 20 personnel; establishes training programs and conducts on-the-job training in air traffic control operations; administers safety programs; supervises the preparation of interfacility agreements; prepares recommendations for changes to air traffic control regulations; supervises inspections of the facility's navigational aids and radio communications equipment.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, and 3 in federal aviation regulations, for a total of 15 semester hours. In the upper-division baccalaureate category, credit on the basis of institutional evaluation (2/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, and 4 in personnel management, for a total of 19 semester hours. In the upper-division baccalaureate category, 6 semester hours in air traffic operations or air traffic control or aviation management and additional credit on the basis of institutional evaluation (2/75).

MOS–93H–002

AIR TRAFFIC CONTROL (ATC) TOWER OPERATOR

93H10
93H20
93H30
93H40

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 655 (Air Operations).

Description

Summary: Provides control tower and non-radar approach control services for military and civilian air traffic. *Skill Level 10:* Operates air traffic control tower and controls military and civilian aircraft during take-off, flight, and landing under Visual Flight Rules (VFR), Special Visual Flight Rules (SVFR), and Instrument Flight Rules (IFR); issues special instructions to aviators concerning airfield facilities, emergency landing areas, obstructions, landmarks, flying areas, restrictions, local regulations, weather advisories, and observed hazards that affect the safe operation of aircraft; keeps records and statistics, including tape recordings of voice radio communications, on daily air traffic operations; processes incoming and outgoing flight data information and analyzes air traffic; operates airfield lighting systems, light signals, and non-radar approach control boards; employs aeronautical charts, maps, radio, and ground communications; applies FAA and Army air traffic rules and regulations and may hold an FAA control tower operator certificate; controls vehicular traffic on airport movement area. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as shift supervisor or facility chief; supervises inspection procedures, site operation, and record keeping; prepares shift duty rosters; administers facility training programs and on-the-job training. *Skill Level 40:* Able to perform the duties required for Skill Level 30; as ATC tower chief, plans, organizes, and supervises air traffic control tower activities; assigns duties, spot-checks work performed, instructs subordinates in work techniques and procedures, coordinates work activities, and establishes and supervises on-the-job training programs; prepares technical, personnel, and administrative reports; may be a designated FAA control tower operator examiner.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, and 2 in office practice, for a total of 17 semester hours (6/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, and 2 in office practices, for a total of 17 semester hours. In the upper-division baccalaureate category, credit in air traffic operations on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, 3 in personnel supervision, 3 in organization and management, and 2 in office practices, for a total of 23 semester hours. In the upper-division baccalaureate/associate degree category, credit in air traffic operations or aviation management on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, 6 in personnel supervision, 3 in human relations, 3 in organization and management, and 2 in office practices, for a total of 29 semester hours. In the upper-division baccalaureate category, 6 semester hours in air traffic operations, air traffic control, or aviation management and additional credit on the basis of institutional evaluation (6/76).

MOS–93J–001

ATC (AIR TRAFFIC CONTROL) RADAR CONTROLLER

93J10
93J20
93J30
93J40
93J50

Exhibit Dates: 3/76–Present.

Career Management Field: 64 (Transportation), *subfield* 644 (Air Operations).

Description

Summary: Provides air traffic control services, employing radar, during aircraft departure, flight, and approach. *Skill Level 10:* Provides terminal and approach control services for aircraft during take-off, flight, and landing; operates radar, issues special air traffic control instructions, keeps records, processes and analyzes air traffic data, and installs and moves ATC radar and associated equipment; applies FAA and Army air traffic rules and regulations; may hold an FAA radar controller certificate. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as shift supervisor or facility chief; supervises record keeping and radar scope alignment procedures; administers facility training programs; prepares duty rosters; prepares recommended changes to air traffic control regulations. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as air traffic control chief at a terminal and approach control facility; inspects facilities, prepares operating standards, evaluates operations, and recommends changes; monitors the handling and storage of tape-recorded conversations between air traffic control personnel and aircraft pilots and other ATC facilities; arranges for training and certification of subordinate personnel and instructs personnel in ATC procedures and FAA regulations; maintains records and statistics on daily air traffic operations. *Skill Level 50:* Able to perform the duties required for 93J40 and 93H40 (Air Traffic Control Tower Operator) and supervises these personnel; supervises all air traffic control operations in a large facility; assigns personnel; establishes physical layout of work sites and insures an efficient and safe environment; reviews, consolidates, and prepares technical, personnel, and administrative reports covering all phases of air traffic control operations.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, and 2 in office practices, for a total of 17 semester hours (6/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, and 2 in office practices, for a total of 17 semester hours. In the upper-division baccalaureate category, credit in air traffic operations or aviation management on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, 3 in personnel supervision, 3 in organization and management, and 2 in office practices, for a total of 23 semester hours. In the upper-division baccalaureate category, credit in air traffic operations or aviation management on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, 6 in personnel supervision, 3 in organization and management, 3 in human relations, and 2 in office practices, for a total of 29 semester hours. In the upper-division baccalaureate category, 6 semester hours in air traffic operations or aviation management, and additional credit on the basis of institutional evaluation (6/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in air traffic control, 6 in air traffic management, 3 in federal aviation regulations, 6 in personnel supervision, 3 in organization and management, 3 in human relations, and 2 in office practices, for a total of 29 semester hours. In the upper-division baccalaureate category, 6 semester hours in air traffic operations or aviation management, 6 for field experience in management, 3 in introduction to management, and 3 in personnel management, and additional credit for an internship in education on the basis of institutional evaluation, for a minimum total of 18 semester hours (6/76).

MOS–94B–001

FOOD SERVICE SPECIALIST

94B20
94B40

Exhibit Dates: 10/73–9/74.

Career Management Field: 94 (Food Service).

Description

Summary: Procures, prepares, and cooks food; identifies and uses appropriate equipment. *Skill Level 20:* Prepares meats, fruits, vegetables, salads, desserts, beverages, and dairy products for serving; performs small-scale baking and meat cutting; operates and performs preventive maintenance on kitchen equipment; has knowledge of hygiene and sanitation procedures. Alternative job paths are available with assignment either as cook leading to dining facility manager or meatcutter leading to chief meatcutter. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the scheduling of personnel and facilities and the preparation of foods; inspects food prior to serving; supervises operation and maintenance of kitchen equipment; supervises procurement and storage of food; applies accounting procedures; maintains inventories, records, and files; completes appropriate reports. NOTE: May have progressed to 94B40 from 94B20 or 00H20 (Enlisted Aide).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation and 3 in kitchen operations; 3 in food service operations *if the duty assignment was cook;* and 3 in meat cutting *if the duty assignment was meatcutter;* for a maximum total of 15 semester hours (1/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in quantity food preparation, 3 in kitchen operations, and 2 in bookkeeping; and 3 in food service operations *if the duty assignment was cook;* and 3 in meatcutting *if the duty*

assignment was meatcutter; for a maximum total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 6 for a food service internship, 3 in kitchen operations, 3 in menu planning, 3 in personnel supervision, and 3 in human relations; and 3 in food service operations *if the duty assignment was cook;* and 3 in meat cutting *if the duty assignment was meatcutter;* for a maximum total of 30 semester hours. In the upper-division baccalaureate category, 6 semester hours for a food service internship (5/76).

MOS–94B–002

FOOD SERVICE SPECIALIST

94B10
94B20
94B40

Exhibit Dates: 10/74–8/76.

Career Management Field: 94 (Food Service).

Description

Summary: Procures, prepares, and cooks food; identifies and uses appropriate equipment. *Skill Level 10:* Either has undergone on-the-job training program in food preparation and serving techniques or has recently completed a program of instruction in the basic principles of food preparation and service; under the supervision of an experienced cook, weighs, blends, mixes, and cooks food in accordance with prescribed procedures; washes, peels, cuts, and dices fruits, vegetables, meats, salads, and dairy products; prepares simple soups, sauces, and gravies; under the supervision of an experienced baker, prepares simple baked items, including breadstuffs and desserts; assists in receiving and storing food and supplies; operates and performs preventive maintenance on food service equipment; portions and serves food on serving line; applies required sanitation procedures in handling, storing, preparing, and serving food. *Skill Level 20:* Able to perform the duties required for Skill Level 10; prepares meats, fruits, vegetables, salads, desserts, beverages, and dairy products for serving; performs small-scale baking and meat cutting; operates and performs preventive maintenance on kitchen equipment; has knowledge of hygiene and sanitation procedures. Alternative job paths are available with assignment either as cook leading to dining facility manager or meatcutter leading to chief meatcutter. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the scheduling of personnel and facilities and the preparation of foods; inspects food prior to serving; supervises operation and maintenance of kitchen equipment; supervises procurement and storage of food; applies accounting procedures; maintains inventories, records, and files; completes appropriate reports. NOTE: May have progressed to 94B40 from 94B20 or 00H20 (Enlisted Aide).

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in quantity food preparation, 1 in kitchen operations, and 1 in food service operations, for a total of 5 semester hours (5/76).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation and 3 in kitchen operations; and 3 in food service operations *if the duty assignment was cook;* and 3 in meat cutting *if the duty assignment was meatcutter;* for a maximum total of 15 semester hours (1/75).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in quantity food preparation, 3 in kitchen operations, and 2 in bookkeeping; and 3 in food service operations *if the duty assignment was cook;* and 3 in meat cutting *if the duty assignment was meatcutter;* for a maximum total of 17 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 6 for a food service internship, 3 in kitchen operations, 3 in menu planning, 3 in personnel supervision, and 3 in human relations; and 3 in food service operations *if the duty assignment was cook;* and 3 in meat cutting *if the duty assignment was meatcutting;* for a maximum total of 30 semester hours. In the upper-division baccalaureate category, 6 semester hours for a food service internship (5/76).

MOS–94B–003

FOOD SERVICE SPECIALIST

94B10
94B20
94B30
94B40
94B50

Exhibit Dates: 9/76–Present. Pending evaluation.

MOS–94D–001

BAKER

94D20
94D40

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 94D was discontinued and its functions were incorporated into MOS 94B, Food Service Specialist.)

Career Management Field: 94 (Food Service).

Description

Summary: Prepares and bakes breads and pastries, using and maintaining specialized bakery equipment. *Skill Level 20:* Able to perform the duties required for 94B10 (Food Service Specialist); identifies, measures, and incorporates ingredients into breads or pastry doughs; controls times and temperatures of mixing and fermentation periods; divides, molds, and shapes breads and pastry products; prepares fillings and icings and fills and decorates baked pastries; slices and wraps baked bread; operates and performs preventive maintenance on all bakery equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the operating shifts in the preparation of breads and pastries; maintains the daily ingredient consumption and production schedules; instructs lower-skill-level personnel in acceptable baking techniques and in the proper operation of equipment; adjusts baking formulas, production processes and procedures to changing conditions; inspects personnel, supply and baking areas, and equipment for cleanliness and proper operation; may participate in site selection of field bakeries.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in baking and bakery operations, 3 in quantity food preparation, 1 in kitchen operations, and 2 in food service operations, for a total of 12 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in baking and bakery operations, 3 in quantity food preparation, 1 in kitchen operations, 2 in food service operations, and 2 in bookkeeping, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in baking and bakery operations, 3 in quantity food preparation, 3 for an internship in baking, 3 in personnel supervision, 3 in human relations, 1 in records administration, 1 in kitchen operations, and 2 in food service operations, for a total of 22 semester hours. In the upper-division baccalaureate category, 3 semester hours for an internship in bakery operations (5/76).

MOS–94F–001

HOSPITAL FOOD SERVICE SPECIALIST

94F20
94F40
94F50

Exhibit Dates: 10/73–8/76.

Career Management Field: 94 (Food Service).

Description

Summary: Assists in the planning and implementation of the food service program in hospitals; prepares, cooks, and serves foods to patients and staff. *Skill Level 20:* Able to perform the duties required for 94B10 (Food Service Specialist); measures, weighs, blends, and mixes various foodstuffs; roasts, fries, broils, boils, and stews meats; prepares fruits, vegetables, salads, desserts, beverages, and dairy products; bakes yeast breads, quick breads, pies, cakes, and cookies; sets up and serves regular and modified diets for patients; assembles and checks patient trays; instructs patients on modified diets to aid them in food selection; maintains records as to patient food preferences and diet changes and adjusts diet menus; prepares food in accordance with instructions from dietition or physician; performs preventive maintenance on kitchen equipment. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises food production or diet therapy activities in a hospital; plans and prepares hospital menus for regular and modified diets and estimates the number of persons to be fed; schedules and supervises food preparation; inspects food preparation for conformance with dietetic requirements, and quality and quantity standards; inspects prepared food for palatability and appearance and to determine conformance with menus and recipes; inspects hospital food service facilities and initiates appropriate corrective action to remove deficiencies; supervises procurement, storage, distribution, accounting for, and serving of food in a hospital food service; conducts classroom and on-the-job training for subordinate personnel. *Skill Level 50:* Able to perform the duties required for Skill Level 40; directs the operation of a hospital food service; implements preventive medical and environmental hygiene practices; advises superiors on food service equipment layout and space design; prepares budgets, reports, accounting reports, and audits for the hospital food service; supervises the preparation of purchase requisitions for hospital food service supplies and equipment.

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in quantity food preparation, 3 in kitchen operations, and 3 in food service operations, for a total of 12 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in kitchen operations, 3 in food service operations, 2 in nutrition, 2 in diet therapy, and 1 in menu planning, for a total of 17 semester hours (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in quantity food preparation, 3 in kitchen operations, 3 in food service operations, and 2 in bookkeeping, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 6 for a food service internship, 3 in menu planning, 3 in personnel supervision, 3 in human relations, 3 in kitchen operations, 3 in food service operations, 2 in nutrition, and 2 in diet therapy, for a

total of 31 semester hours. In the upper-division baccalaureate category, 6 semester hours for a food service internship (5/76).

Recommendation, Skill Level 50

In the vocational certificate category, 6 semester hours in quantity food preparation, 3 in kitchen operations, 3 in food service operations, 2 in bookkeeping, and 1 in hygiene and sanitation, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours for a food service internship, 6 in quantity food preparation, 3 in personnel supervision, 3 in menu planning, 3 in human relations, 3 in kitchen operations, 3 in food service operations, 2 in nutrition, 2 in diet therapy, 2 in accounting, 2 in purchasing, and 1 in hygiene and sanitation, for a total of 36 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in food service equipment layout design, 3 in records administration, 3 in industrial arts education (food service), and 1 in diet therapy, for a total of 19 semester hours (5/76).

MOS–94F–002

HOSPITAL FOOD SERVICE SPECIALIST

94F10
94F20
94F30
94F40
94F50

Exhibit Dates: 9/76–Present.

Career Management Field: 94 (Food Service).

Description

Summary: Assists in the planning and implementation of the food service program in hospitals; prepares, cooks, and serves food to patients and staff. *Skill Level 10:* Measures, weighs, blends, and mixes various foodstuffs; roasts, fries, broils, boils, and stews meats; prepares fruits, vegetables, salads, desserts, beverages, and dairy products; bakes yeast breads, quick breads, pies, cakes, and cookies; sets up and serves regular and modified diets for patients; assembles and checks patient trays; instructs patients on modified diets to aid them in food selection; maintains records as to patient food preferences and diet changes and adjusts diet menus; prepares food in accordance with instructions from dietition or physician; performs preventive maintenance on kitchen equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; ensures adherence to procedures, temperatures, and time periods in food preparation; writes and adjusts individual standard diet menus; participates in planning of food service activities; conducts food acceptability studies; applies storage standards; completes food production forms and records; monitors tasks in support of patient tray service operation, including preparation, assembly, and delivery to wards. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises food production or diet therapy activities in a hospital; plans and prepares hospital menus for regular and modified diets and estimates the number of persons to be fed; schedules and supervises food preparation; inspects food preparation for conformance with dietetic requirements and for quality and quantity standards; inspects prepared food for palatability and appearance and to determine conformance with menus and recipes; inspects hospital food service facilities and initiates appropriate corrective action to remove deficiencies; supervises procurement, storage, distribution, accounting for, and serving of food in a hospital food service; conducts classroom and on-the-job training for subordinate personnel. *Skill Level 40:* Able to perform the duties required for Skill Level 30; performs supervisory duties; develops, coordinates, implements, and advises on food programs; evaluates and designs improvements in food programs and training programs; assists in preparation of hospital food service budget. *Skill Level 50:* Able to perform the duties required for Skill Level 40; prepares budget and determines financial requirements; instructs military and civilian personnel; utilizes office management techniques; advises superiors on food service equipment layout and space design.

Recommendation, Skill Level 10

In the vocational certificate category, 6 semester hours in quantity food preparation. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in nutrition, 2 in diet therapy, and 1 in food service administration and sanitation, for a total of 12 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category, 6 semester hours in quantity food preparation and 3 in kitchen operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in nutrition, 3 in kitchen operations, 2 in diet therapy, and 1 in food service administration and sanitation, for a total of 15 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 6 semester hours in quantity food preparation and 3 in kitchen operations. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in nutrition, 3 in kitchen operations, 2 in diet therapy, 2 in personnel supervision, and 1 in food service administration and sanitation, and additional credit in menu planning, food service operation, and for a food service internship on the basis of institutional evaluation, for a minimum total of 17 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in quantity food preparation, 3 in kitchen operations, and 2 in bookkeeping, for a total of 11 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in nutrition, 3 in kitchen operations, 3 in personnel supervision, 3 in human relations, 2 in diet therapy, and 1 in food service administration and sanitation, and additional credit in menu planning, in food service operation, and for a food service internship on the basis of institutional evaluation, for a minimum total of 21 semester hours. In the upper-division baccalaureate category, credit for a food service internship on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 40. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 3 in nutrition, 3 in kitchen operations, 3 in personnel supervision, 3 in human relations, 2 in diet therapy, 1 in accounting, and 1 in food service administration and sanitation, and additional credit in menu planning, in food service operations, and for a food service internship on the basis of institutional evaluation, for a minimum total of 22 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management and 3 in food service equipment layout design, and additional credit in introduction to management, industrial arts (food service), and diet therapy on the basis of institutional evaluation, for a minimum total of 9 semester hours (6/77).

MOS–94Z–001

FOOD SERVICE SUPERVISOR

94Z50

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 94Z was discontinued and its functions were incorporated into MOS 94B, Food Service Specialist.)

Career Management Field: 94 (Food Service).

Description

Able to perform the duties required for 94B40 (Food Service Specialist) or 94D40 (Baker); supervises food preparation and food service activities; supervises procurement, storage, distribution, receipt, preparation, and serving of food; evaluates and designs improvements to the food program; prepares reports and studies on food service activities and programs; supervises food cost control system, accounting and monetary allowance ration; computes nutrition requirements; develops or analyzes menus; supervises field feeding operations and the maintenance of field equipment.

Recommendation

In the vocational certificate category, 6 semester hours in quantity food preparation, 3 in kitchen operations, 3 in food service operations, and 1 in hygiene and sanitation, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in quantity food preparation, 6 for a food service internship, 3 in personnel supervision, 3 in menu planning, 3 in human relations, 3 in kitchen operations, 3 in food service operations, 2 in accounting, 2 in purchasing, and 1 in hygiene and sanitation, for a total of 32 semester hours. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in records administration, 3 in industrial arts education (food service), and 3 in food service equipment layout design, for a total of 18 semester hours (5/76).

MOS–95B–001

MILITARY POLICEMAN

95B10
95B20
95B40
95B50

Exhibit Dates: 10/73–8/75.

Career Management Field: 95 (Law Enforcement).

Description

Summary: Functions as a police officer, controlling vehicular traffic, investigating crimes, and safeguarding lives and property in a community setting; functions as a guard for a detention facility or temporary confinement facility, controlling property and dangerous and hostile personnel by surveillance, searching, and movement control; conducts inspections of and writes technical reports on, problematical social interaction; presents evidence and testifies in court. *Skill Level 10:* Under supervision functions as a police patrolman. *Skill Level 20:* Functions as a senior police patrolman on a team or alone; conducts preliminary investigations. *Skill Level 40:* Functions as a first-line supervisor, overseeing several police officers; reviews written reports; maintains record systems. *Skill Level 50:* As an administrator and planner at the mid-management level, oversees first-line supervisors of police organizations or units; knows and applies personnel and office management principles. NOTE: May have progressed to 95B50 from 95B40 or 95D20, 95D30, or 95D40 (Assistant Special Agent).

Recommendation, Skill Level 10

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 3 semester hours in law enforcement, police administration, or criminology (1/75).

Recommendation, Skill Level 20

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate

category, 6 semester hours in law enforcement, police administration, or criminology (1/75).

Recommendation, Skill Level 40

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 9 semester hours in law enforcement, police administration, or criminology (1/75).

Recommendation, Skill Level 50

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 12 semester hours in law enforcement, police administration, or criminology (1/75).

MOS–95B–002

MILITARY POLICE

95B10
95B20
95B30
95B40
95B50

Exhibit Dates: 9/75–Present.

Career Management Field: 95 (Law Enforcement).

Description

Summary: Performs law enforcement and traffic control duties; provides security for temporary detention facilities, individuals, and urban or industrial communities; conducts arrests, searches and seizures of persons and property in consonance with current legal rulings; collects evidence and testimony for presentation in court; maintains records for the law enforcement component of the criminal justice system. *Skill Level 10:* Performs as a trainee policeman under close supervision. *Skill Level 20:* Serves as a senior policeman on a team or alone; prepares records and reports. *Skill Level 30:* Is a first-line supervisor of small groups of policemen; maintains record system and reviews reports; conducts crime prevention briefings; performs preliminary investigations. *Skill Level 40:* As a mid-level manager, supervises and directs the police operations of a larger police organization; reviews reports and maintains records; assists in the planning, coordination, and administration of police activities. *Skill Level 50:* Serves as the principal administrator of a police organization, correctional facility, or criminal investigation agency; coordinates, inspects, and directs subordinates. NOTE: May have progressed to 95B50 from 95B40, 95C50 (Correctional Specialist), or 95D40 (Assistant Special Agent).

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, credit in police science, law enforcement, or criminology on the basis of institutional evaluation (11/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in police science, law enforcement, or criminology (11/75).

Recommendation, Skill Level 30

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 6 semester hours in police science, law enforcement, or criminology (11/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category, 12 semester hours in police science, law enforcement, or criminology (11/75).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category or in the upper-division baccalaureate category,12 semester hours in police science, law enforcement, or criminology, 3 for field experience in management, and 3 in introduction to management, for a total of 18 semester hours (11/75).

MOS–95C–001

CORRECTIONAL SPECIALIST

95C10
95C20
95C30
95C40
95C50

Exhibit Dates: 9/75–Present.

Career Management Field: 95 (Law Enforcement).

Description

Summary: Functions as a correctional officer, providing rehabilitative, health, welfare, and security services to prisoners within a correctional facility; conducts inspections; prepares written reports; coordinates activities of inmates and facility staff personnel. *Skill Level 10:* Under supervision, functions as a detention guard or correctional officer. *Skill Level 20:* Functions as a correctional officer; provides individual counseling and guidance to prisoners within a rehabilitative program. *Skill Level 30:* Functions as a first-line supervisor of up to ten correctional officers; prepares or reviews reports and records of individuals and programs; provides formal counseling. *Skill Level 40:* As a mid-level manager, supervises and coordinates all correctional, custodial, treatment, and rehabilitative activities of inmates and up to 100 staff members in a local correctional facility containing as many as 250 prisoners; responsible for administrative inspection and review of all records, reports, and activities; furnishes recommendations to superiors regarding clemency, restoration to duty, and further treatment of inmates; advises superior on matters concerning enlisted personnel under his supervision. *Skill Level 50:* Supervises and coordinates inmate and staff activities in a large consolidated correctional facility; as an administrator, plans, coordinates, and implements all counseling, rehabilitative, and correctional programs in a permanent facility containing 250 or more prisoners; equivalent to a federal maximum security prison warden.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in corrections or criminology (11/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in corrections or criminology. In the upper-division baccalaureate category, 3 semester hours in correctional administration and 3 in criminology (11/75).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 12 semester hours in corrections or criminology. In the upper-division baccalaureate category, 6 semester hours in correctional administration, 3 in criminology, and 3 in introduction to management, for a total of 12 semester hours (11/75).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 18 semester hours in corrections or criminology. In the upper-division baccalaureate category, 6 semester hours in correctional administration, 3 in criminology, 3 in introduction to management, and 6 for field experience in management, for a total of 18 semester hours (11/75).

MOS–95D–001

ASSISTANT SPECIAL AGENT

95D10
95D20
95D30
95D40

Exhibit Dates: 9/75–Present.

Career Management Field: 95 (Law Enforcement).

Description

Summary: Investigates incidents and offenses, and inquiries into complaints involving government property and soldiers. *Skill Level 10:* Under extremely close supervision, performs criminal investigations and physical and personal security activities; prepares reports and sketches; operates cameras and surveillance equipment; uses small arms weaponry; arrests, searches, and interviews suspects; helps prepare legal cases; gives court testimony and presentations. *Skill Level 20:* Able to perform the duties required for Skill Level 10; under close supervision, conducts criminal investigations, physical and personal security activities, and crime prevention programs; prepares and reviews case reports and sketches of crime scenes; supervises the use of cameras and surveillance equipment. *Skill Level 30:* Able to perform the duties required for Skill Level 20; under general supervision, conducts criminal investigations, physical and personal security activities, and crime prevention programs; performs as the senior member of an investigation team responsible for arrest, search, and interview of violators of laws; prepares and presents oral and physical evidence in court. *Skill Level 40:* Able to perform the duties required for Skill Level 30; as a chief assistant investigator, performs as sole resident agent at isolated locations or supervises lower-ranked investigators; supervises or performs criminal investigations, physical and personal security activities, and crime prevention programs; reviews, prepares, and maintains case and office records; prepares cases for presentation in court; maintains custody of evidence.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 6 semester hours in police science and administration, law enforcement, or criminology. In the upper-division baccalaureate category, credit in police science and administration, law enforcement, or criminology on the basis of institutional evaluation (12/75).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 9 semester hours in police science and administration, law enforcement, or criminology. In the upper-division baccalaureate category, credit in police science and administration, law enforcement, or criminology on the basis of institutional evaluation (12/75).

Recommendation, Skill Level 30

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 12 semester hours in police science and administration, law enforcement, or criminology. In the upper-division baccalaureate category, credit in police science and administration, law enforcement, or criminology on the basis of institutional evaluation (12/75).

Recommendation, Skill Level 40

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 15 semester hours in police science and administration, law enforcement, or criminology, 3 in police supervision, and 3 in office management, for a total of 21 semester hours. In the upper-division baccalaureate category, 6 semester hours in public administration, and additional credit in police supervision and in criminology, law enforcement, or police science and administration on the basis of institutional evaluation (12/75).

MOS–96B–001

INTELLIGENCE ANALYST

96B20
96B30
96B40
96B50

Exhibit Dates: 10/73–8/76.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Assembles, integrates, analyzes, and disseminates intelligence information collected from tactical, strategic, and technical sources; functions as a mail examiner, file clerk, editor, and censor; analyzes intelligence information and serves as a country or geographic area specialist. *Skill Level 20:* Performs the duties of mail clerk; collects and analyzes intelligence information on unit personnel strengths and dispositions; draws maps depicting personnel and equipment locations; collates and summarizes in report form data concerning enemy organizations and personnel; edits and censors information and communications prior to publishing or broadcasting. *Skill Level 30:* Able to perform the duties required for Skill Level 20; performs the duties of intelligence analyst with minimal supervision; is a country or geographic area specialist; assists in the collection of military, economic, political, sociological, and geographic information; prepares and reads related charts, graphs, tables, and other graphic aids; extracts and collates intelligence information from various publications, documents, and media. *Skill Level 40:* Able to perform the duties required for Skill Level 20 or 30; serves as a chief strategic intelligence analyst and as a first-line supervisor for intelligence operations teams at the lower unit level; supervises and coordinates the preparation of intelligence reports and prepares consolidated reports containing maps, aerial photographs, and technical data; serves as chief editor or censor for intelligence information. *Skill Level 50:* Able to perform the duties required for Skill Level 30 or 40; serves as chief operations and intelligence sergeant at military units as large as a division; supervises intelligence activities pertaining to organizations; supervises the training of tactical and technical operations of intelligence sections within high-level commands; assists superiors in the appraisal of intelligence operations and training activities; serves as instructor in intelligence procedures and operations.

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in clerical practices and 3 in records administration (1/75).

Recommendation, Skill Level 30

Same as that for Skill Level 20 (1/75).

Recommendation, Skill Level 40

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 3 semester hours in clerical practices, 3 in records administration, and 3 in personnel management, for a total of 9 semester hours (1/75).

Recommendation, Skill Level 50

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper division baccalaureate category, 3 semester hours in clerical practices, 3 in records administration, 6 in personnel management, and 6 for field experience in education, for a total of 18 semester hours (1/75).

MOS–96B–002

INTELLIGENCE ANALYST

96B10
96B20
96B30
96B40
96B50

Exhibit Dates: 9/76–Present. Pending evaluation.

MOS–96C–001

INTERROGATOR

96C20
96C30
96C40
96C50

Exhibit Dates: 10/73–8/76.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Supervises and conducts interrogations in foreign language; able to perform the duties required for MOS 04B (Translator-Interpreter). *Skill Level 20:* Selects persons to interrogate by examining biographical records; questions prisoners of war, enemy deserters, and civilians in foreign language; verifies information by comparison with other interrogators, documents, and intelligence reports; prepares reports on interrogations performed. *Skill Level 30:* Able to perform the duties required for Skill Level 20; participates in difficult interrogations to insure accurate exchange of ideas and information; checks interrogations for adequacy of coverage; edits translated questions, reports, and other written materials of interrogators for accuracy and clarity. *Skill Level 40:* Able to perform the duties required for Skill Level 30; is a first-line supervisor of 15 or more persons in an interrogation section; plans and organizes work schedules and assigns interrogators to specific tasks; assists officers in intelligence operations; assists with the instruction and training of interrogators; collects, prepares, and distributes material on intelligence operations; establishes and keeps file of language reference materials. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager; assists superiors in intelligence operations and training situations for strategic intelligence interrogation activities; supervises and inspects duties performed by lower-skill-level personnel; collects, prepares, and distributes material and data on intelligence, operations, and training; advises company commander on all enlisted personnel matters; coordinates operation of company food service and supply activities; directs and coordinates company administration. NOTE: May have progressed to 96C50 from 96C40, 96C30, or 04C2L (Expert Linquist).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in typing, 2 in report writing, and 1 in filing, for a total of 6 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in translating, 3 in written communication skills, 2 in English grammar, 2 in report writing, 2 in typing, and 1 in filing, for a total of 13 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in interpreting. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (5/76).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in translating, 3 in written communication skills, 2 in English grammar, 2 in report writing, 2 in editing, 2 in typing, and 1 in filing, for a total of 15 semester hours. In the upper-division baccalaureate category, the recommendation is the same as that for Skill Level 20. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Education Experiences in the Armed Services* (5/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in translating, 3 in written communication skills, 3 in personnel supervision, 3 in human relations, 3 for field experience in management, 2 in English grammar, 2 in report writing, 2 in editing, 2 in typing, and 1 in filing for a total 24 semester hours. In the upper-division baccalaureate category, the recommendation is the same as that for Skill Level 20. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (5/76).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 6 semester hours for field experience in management, 3 in introduction to management, 3 in personnel management, 3 in records administration, and 3 for field experience in interpreting, for a total of 18 semester hours. NOTE: Add credit for the specific foreign language in accordance with the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* (5/76).

MOS–96C–002

INTERROGATOR

96C10
96C20
96C30
96C40

Exhibit Dates: 9/76–Present. Pending evaluation.

MOS–96D–001

IMAGE INTERPRETER

96D20
96D30
96D40

Exhibit Dates: 10/73–8/76.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Interprets aerial and ground imagery developed by photographic and electronic means. *Skill Level 20:* Utilizes principles and techniques of photogrammetry and employs electronic, mechanical, and optical devices to study and interpret photographs and photographed scope presentations produced by radar and infrared sensory devices; prepares map overlays, charts, mosaics, and other graphics, computes distances and field coordinates; prepares graphic and written reports on imagery interpretation findings. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises image interpretation activities; plans and organizes work schedules, assigns duties, and instructs subordinates in proper work techniques; establishes and maintains files. *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager serving as the principal noncommissioned offi-

cer in a headquarters or as the first sergeant of a company; assists in planning, coordinating, and supervising all activities related to imagery interpretation; advises superiors on all personnel matters and is responsible for carrying out personnel actions; directs training; serves as inspector; prepares reports on intelligence, operations, and training; may serve as chief instructor at a formal training facility.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in map reading and 2 in mechanical drawing. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in photogrammetry, 3 in aerial photographic interpretations, 2 in mechanical drawing, 2 in technical mathematics, and 1 in technical writing, for a total of 14 semester hours (6/76).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in map reading, 3 in photogrammetry, 3 in aerial photographic interpretation, 3 in technical writing, 3 in human relations, 3 in personnel supervision, 3 for field experience in management, 2 in mechanical drawing, and 2 in technical mathematics, for a total of 25 semester hours (6/76).

Recommendation, Skill Level 50

In the vocational certificate category, the recommendation is the same as that for Skill Level 20. In the lower-division baccalaureate/associate degree category, the recommendation is the same as that for Skill Level 40. In the upper-division baccalaureate category, 3 semester hours in introduction to management, 3 in personnel management, 3 in office management, and 3 for field experience in management, for a minimum total of 12 semester hours; and, *if the duty assignment was chief instructor at a formal training facility*, 3 semester hours for an internship in education, for a total of 15 semester hours (6/76).

MOS–96D–002

IMAGE INTERPRETER

96D10
96D20
96D30
96D40
96D50

Exhibit Dates: 9/76–Present. Pending evaluation.

MOS–96H–001

AERIAL SENSOR SPECIALIST (OV–1D)

96H10
96H20
96H30
96H40

Exhibit Dates: 9/76–Present.

Career Management Field: 96 (Military Intelligence), *subfield* 963 (Tactical Intelligence Surveillance).

Description

Summary: Supervises or participates in aerial surveillance operations using ground data terminal systems to provide information and imagery of intelligence value. *Skill Level 10:* Performs aerial surveillance, including visual reconnaissance, search and rescue, radiological survey, and similar intelligence activities; operates aerial infrared, radar, photographic, or similar sensor systems including associated data transmission links and ground data terminal stations; performs radio communications and aids aviator in aerial navigation; performs applicable electronic counter-countermeasures; assists in image interpretation; performs operator maintenance on sensors and associated equipment. *Skill Level 20:* Performs the duties required for Skill Level 10 and provides technical guidance to Skill Level 10 personnel; assists aviator in weather analysis, navigation computations, and aircraft preflight inspection procedures; operates or supervises the operation of aerial surveillance and associated equipment; troubleshoots sensor systems; records operation and maintanance data in equipment logs; utilizes interpretation keys in assisting image interpreter. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises operations and activities of a section; supervises inspections and operator maintenance of sensors and associated equipment; directs and conducts on-the-job training; assists in planning use of aerial surveillance systems; assists image interpreter in analysis and interpretation of imagery; conducts or participates in briefing headquarters staff on capabilities and limitations of aerial surveillance missions, and on the results obtained. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises aerial surveillance platoon operations; plans and organizes work schedules, assigns duties, and instructs section leaders in proper work techniques and procedures; critiques mission results; participates in planning use of aerial surveillance systems and advises commander on coordination of aerial and ground surveillance; coordinates personnel, equipment, operational supply, and maintenance support requirements.

Recommendation, Skill Levels 10 and 20

In the vocational certificate category, 3 semester hours in general mathematics, 1 in still camera techniques, and 1 in electric circuits, for a total of 5 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in general mathematics, 3 in outdoor survival skills, 1 in still camera techniques, 1 in electric ciruits, and 1 in maps and air photos, for a total of 9 semester hours. In the upper-division baccalaureate category, 1 semester hour in remote sensing (4/77).

Recommendation, Skill Level 30

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in general mathematics, 3 in outdoor survival skills, 3 for field experience in management, 2 in maps and air photos, 2 in human relations, 2 in communication skills, 2 in personnel supervision, 1 in still camera techniques, and 1 in electric circuits, for a total of 19 semester hours. In the upper-division baccalaureate category, 1 semester hour in remote sensing (4/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Levels 10 and 20. In the lower-division baccalaureate/associate degree category, 3 semester hours in general mathematics, 3 in outdoor survival skills, 3 for field experience in management, 3 in human relations, 3 in communication skills, 3 in personnel supervision, 2 in maps and air photos, 1 in still camera techniques, and 1 in electric circuits, for a total of 22 semester hours. In the upper-division baccalaureate category, 1 semester hour in remote sensing (4/77).

MOS–96Z–001

INTELLIGENCE SENIOR SERGEANT

96Z50

Exhibit Dates: 9/76–Present. Pending evaluation.

MOS–97B–001

COUNTERINTELLIGENCE AGENT

97B40
97B50

Exhibit Dates: 10/73–8/76.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Conducts investigations to determine whether laws have been violated; collects background information about individuals, groups, and organizations through surveys of public and private records, personal interviews, and surveillance techniques, operates specialized photographic and audio-visual recording equipment; conducts inspections of facilities to determine security weaknesses; maintains record systems; prepares oral and written reports; conducts briefings and classes. *Skill Level 40:* Is a first-line supervisor of an investigation or physical security team; sometimes conducts investigations without assistance. NOTE: May have progressed to 97B40 from 97C40 (Area Intelligence Specialist), 97D20, or 97D40 (Military Intelligence Coordinator). *Skill Level 50:* Able to perform the duties required for Skill Level 40; is a mid-level manager; plans and administers operations and training activities; supervises subordinate personnel; knows and applies office management principles. NOTE: May have progressed to 97B50 from 97B40 or 97C50 (Area Intelligence Specialist).

Recommendation, Skill Level 40

In the vocational certificate category, the lower-division baccalaureate/associate degree category, or the upper-division baccalaureate category, 3 semester hours in police administration, 2 in law enforcement, 2 in industrial security, and 2 in criminology, for a total of 9 semester hours (2/75).

Recommendation, Skill Level 50

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in police administration, 2 in law enforcement, 2 in industrial security, 2 in criminology, 1 in personnel supervision, 1 in records administration, and 1 in communication skills, for a total of 12 semester hours. In the upper-division baccalaureate category, 3 semester hours in police administration, 3 for practicum in management, 2 in law enforcement, 2 in industrial security, and 2 in criminology, for a total of 12 semester hours (2/75).

MOS–97B–002

COUNTERINTELLIGENCE AGENT

97B20
97B30
97B40
97B50

Exhibit Dates: 9/76–Present. Pending evaluation.

MOS–97C–001

AREA INTELLIGENCE SPECIALIST

97C30
97C40
97C50

Exhibit Dates: 9/76–Present.

Career Management Field: 96 (Military Intelligence).

Description

Summary: Supervises and performs intelligence analysis of a geographic area; may be employed in either a group activity or individually with minimum supervision; formulates and carries out intelligence-gathering missions with a specific objective and utilizes extremely

demanding operational security procedures in both domestic and foreign environments. NOTE: Many of the required duties for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 30:* May have previously held MOS 97B (Counterintelligence Agent) or MOS 97D (Military Intelligence Coordinator); performs extensive research to gain an in-depth understanding of the geography, politics, culture, technology, economics, and military and legal practices and institutions of one or more foreign nations; directs the operational or administrative activities of 1–12 U.S. or foreign personnel; performs discrete personnel investigations; may have written, oral, and/or aural skills in one or more foreign languages or dialects; understands and uses a wide variety of security techniques and procedures; uses specialized intelligence equipment, including standard and nonstandard communications and photographic equipment; may be familiar with computer usage in storing and retrieving intelligence data; identifies, assesses, and applies psychological factors which influence and motivate human behavior; writes extensive informational, operational, and administrative reports. *Skill Level 40:* Able to perform the duties required for Skill Level 30; serves as a senior area intelligence specialist; may serve as a service school instructor; may assume the duties normally assigned to Skill Level 50 personnel. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as chief area intelligence specialist; directs area intelligence activities, performing less field work; performs budget analysis and justification; coordinates the preparation of extensive reports; supervises the activities of approximately 10–40 persons; trains subordinates in the application of security procedures and intelligence-gathering techniques; may serve as first sergeant of a company.

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in area studies, 3 in written communication skills, 3 in applied psychology, 3 in geography, 3 in photography, 2 in typing, and 2 in electronic systems operations, and additional credit in area studies on the basis of institutional evaluation, for a minimum total of 19 semester hours; add credit for foreign language proficiency by referring to the recommendation(s) in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* and modifying the credit on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category extending into the upper-division baccalaureate category, 9 semester hours in area studies, 3 in written communication skills, 3 in applied psychology, 3 in geography, 3 in photography, 2 in typing, and 2 in electronic systems operations, for a minimum total of 25 semester hours; *if the duty assignment was chief instructor in a formal training facility,* 3 additional semester hours for an internship in education, for a minimum total of 28 semester hours; add credit for foreign language proficiency by referring to the recommendation(s) in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* and modifying the credit on the basis of institutional evaluation; additional credit in area studies, written communication skills, field experience in management, management problems, and field experience in personnel supervision (up to the amounts in the recommendation for Skill Level 50) on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category extending into the upper-division baccalaureate category, 15 semester hours in area studies, 6 in written communications skills, 6 for field experience in management, 3 in management problems, 3 for field experience in personnel supervision, 3 in applied psychology, 3 in geography, 3 in photography, 2 in typing, and 2 in electronic systems operations, for a minimum total of 46 semester hours; *if the duty assignment was chief instructor in a formal training facility,* 3 additional semester hours for an internship in education, for a minimum total of 49 semester hours; add credit for foreign language proficiency by referring to the recommendation(s) in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* and modifying the credit on the basis of institutional evaluation (6/77).

MOS–97D–001

MILITARY INTELLIGENCE COORDINATOR

97D20

97D40

Exhibit Dates: 10/73–8/76. (Effective 9/76, MOS 97D was discontinued.)

Career Management Field: 96 (Military Intelligence).

Description

Summary: Supervises and performs the analysis of intelligence data in conjunction with counterintelligence or area intelligence operations; must be familiar with the duties required for MOS 97B (Counterintelligence Agent) and MOS 97C (Area Intelligence Specialist). NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 20:* Provides general and specialized administrative services to support the activities of 5–15 U.S. Army intelligence agents, which may include conducting document research, establishing and maintaining intelligence files, requisitioning supplies and equipment, and processing personnel actions; prepares and edits operational and administrative reports; types at a minimum speed of 25 words per minute; adheres to proper security procedures in the performance of all duties; may assist in an investigation by collecting information from public sources; may acquire proficiency in one or more foreign languages; may supervise lower-ranking personnel. *Skill Level 40:* Able to perform all of the duties of Skill Level 20; coordinates the reporting of intelligence agents' activities; may manage a military intelligence coordination office.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in written communication skills, 3 in security procedures, 2 in office practices, and 2 in typing, and additional credit in investigative report writing on the basis of institutional evaluation, for a minimum total of 10 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 3 in security procedures, 2 in office practices, and 2 in typing, and additional credit in investigative report writing, for field experience in personnel supervision, and for foreign language proficiency on the basis of institutional evaluation, for a minimum total of 10 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in written communication skills, 3 in security procedures, 3 in investigative report writing, 2 in office practices, and 2 in typing, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication skills, 3 in security procedures, 3 in investigative report writing, 3 for field experience in personnel supervision, 2 in office practices, and 2 in typing, and additional credit for foreign language proficiency on the basis of institutional evaluation, for a minimum total of 19 semester hours (6/77).

MOS–98B–001

EW/CRYPTOLOGIC CRYPTANALYST (CRYPTANALYTIC SPECIALIST)

98B20

98B40

Exhibit Dates: 10/73–2/77. (Effective 3/77, MOS 98B was discontinued and its functions were incorporated into MOS 98C, EW/Signal Intelligence Analyst.)

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Conducts or supervises cryptanalysis of coded messages obtained through the interception of foreign communications. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 20:* Scans intercepted communications to isolate encrypted messages; identifies method of encryption; decodes or deciphers messages employing simple cryptographic systems; uses automatic data processing techniques to aid in the analysis of encrypted messages; reduces decoded and deciphered data into automatic data processing format; prepares reports and maintains support files and records; types at a minimum rate of 25 words per minute; may acquire a technical vocabulary in a foreign language. *Skill Level 40:* Able to perform the duties required for Skill Level 20; supervises the processing, analysis, and reporting of encrypted foreign communications; performs cryptanalysis of messages employing complex encryption systems; prepares technical intelligence reports and presents oral reports on cryptanalytic activities; coordinates cryptanalytic activities with other signal intelligence activities; develops new cryptanalytic approaches and methods to insure maximum utilization of personnel and efficiency of operations; performs statistical tests and studies.

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in oral communication skills, 1 in office practices, and 1 in introduction to automatic data processing equipment, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in oral communication skills, 2 in geography, 1 in office practices, and 1 in introduction to automatic data processing equipment, and additional credit for foreign language proficiency on the basis of institutional evaluation, for a minimum total of 15 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, 3 semester hours in written communication skills, 3 in oral communication skills, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in office practices, and 1 in introduction to automatic data processing equipment, for a total of 15 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 3 in oral communication skills, 3 in social sciences and humanities, 3 for field experience in personnel supervision, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in geography, 2 in office practices, and 1 in introduction to automatic data processing equipment, and additional credit for foreign language proficiency on the basis of institutional evaluation, for a minimum total of 23 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (6/77).

MOS–98C–001

EW/SIGNAL INTELLIGENCE ANALYST

98C10
98C20
98C30
98C40

Exhibit Dates: 3/77–Present.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Supervises and performs analysis and reporting of intercepted foreign communications at a mobile or fixed site. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 10:* Gathers, sorts, and scans intercepted messages and signals, and performs initial analysis to establish communications patterns; isolates valid message traffic; reduces communications data into automatic data processing format; operates communications equipment for reporting and coordination; types at a minimum rate of 25 words per minute; has a knowledge of the geography and culture of the area from which intercepted communications originate; may acquire a technical vocabulary in one or more foreign languages. *Skill Level 20:* Able to perform the duties required for Skill Level 10; may supervise 5–8 persons; analyzes foreign communications, including encrypted communications; uses automatic data processing techniques to analyze communications; presents written and oral technical and intelligence reports. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises traffic analysis and provides guidance on the interpretation of collected information; devises methods for solving complex analytic problems; maintains analytic files; compiles, writes, edits, evaluates, and disseminates intelligence reports; analyzes automatic data processing results and confers with computer programmers and analysts; coordinates activities and schedules work; implements emergency action plans. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises traffic and signal intelligence analysis activities and coordinates collection, processing, analysis, and reporting functions; analyzes and evaluates intelligence data and releases reports; supervises 18–40 persons; may serve as an operations sergeant, supervising up to 75 persons; may have experience as the enlisted commander of a detachment.

Recommendation, Skill Level 10

In the vocational certificate category, 2 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, and 1 in introductory mathematics, for a total of 7 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, 1 in introductory mathematics, and 1 in geography, for a total of 8 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category, 3 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in oral communication skills, 1 in office practices, and 1 in introduction to automatic data processing equipment, for a total of 13 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in geography, 2 in oral communication skills, 1 in office practices, and 1 in introduction to automatic data processing equipment, and additional credit for foreign language proficiency on the basis of institutional evaluation, for a minimum total of 15 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 3 semester hours in written communication skills, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in oral communication skills, 2 in office practices, and 1 in introduction to automatic data processing equipment, for a total of 14 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 3 in human relations, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in geography, 2 in oral communication skills, 2 in office practices, 2 in visual comprehension techniques, and 1 in introduction to automatic data processing equipment, and additional credit for foreign language proficiency on the basis of institutional evaluation, for a minimum total of 21 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, the recommendation is the same as that for Skill Level 30. In the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 3 in human relations, 3 for field experience in personnel supervision, 2 in typing, 2 in electronic systems operations, 2 in introductory mathematics, 2 in geography, 2 in oral communication skills, 2 in office practices, 2 in visual comprehension techniques, and 1 in introduction to automatic data processing equipment, and additional credit for foreign language proficiency on the basis of institutional evaluation, for a minimum total of 24 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (6/77).

MOS–98G–001

EW/Signal Intelligence Voice Interceptor

98G10
98G20
98G30
98G40
98G50

Exhibit Dates: 3/77–Present.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Conducts and supervises the interception, transcription, translation, and reporting of foreign voice transmissions in a mobile or fixed station environment. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 10:* Operates intercept receivers, including radiotelephone and multichannel systems, and recording equipment; selects, erects, and orients tactical antennas; makes written records of foreign voice transmissions which are composed of limited terminology and simple syntactic structures; identifies languages spoken in the geographic area to which assigned; categorizes foreign voice signals by type of activity; prepares voice activity records; makes verbatim translation from foreign language to English; scans written foreign language materials for key words and indicators; provides translation assistance to non-language-qualified analysts; extracts specific intelligence information from voice radio transmissions; researches and develops special project reports; presents oral reports; types in English and in language of proficiency; performs operator maintenance on equipment. *Skill Level 20:* Able to perform the duties required for Skill Level 10; intercepts, identifies, and records foreign voice transmissions; supervises a small unit; assembles, integrates, analyzes, and disseminates intelligence information covering political, economic, sociological, historical, and psychological factors of a geographic area; prepares special studies and reports as required. Must have the following minimum capabilities in at least one foreign language: vocabulary (aural recognition) of 6,000–8,000 words; 750–1,000 technical term items; knowledge of complex grammar and syntax; 85–90 percent of all existing word functions; 85–90 percent of all kinship terms; total comprehension of writing systems, except in languages with ideographic systems where the ability to write 500 and read 1,500 characters is required. *Skill Level 30:* Able to perform the duties required for Skill Level 20; supervises voice communication intercept activities; operates sophisticated equipment designed to collect and simultaneously produce on-line activity records of complex foreign voice radio transmissions containing technical terminology, advanced grammar/syntax, and colloquial conversational forms; directs voice signal collection and processing activities; determines collection and processing priorities; identifies and performs limited analysis on nonclear voice and nonvoice signals; writes complex reports; makes oral presentations to general staff. Must achieve a fluent and accurate proficiency in one or more foreign languages and have the following minimum foreign language capabilities: vocabulary (aural recognition) of 8,000–10,000 words; 1,000–1,500 technical term items; advanced knowledge of grammar and syntax; 90–100 percent of all existing word functions; 90–100 percent of all existing kinship terms and forms of address; must be able to write 700 and read 2,000 characters in an ideographic writing system. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises voice communication countermeasure activities; refines essential elements of information needed to support assigned mission; performs voice intercept and processing of highly complex foreign voice transmissions; prepares papers for use at high military and governmental levels. Must achieve the following minimum capabilities in one or more foreign languages: vocabulary (aural recognition) of 10,000–15,000 words; 1,500–3,000 technical term items; total knowledge of word functions; total knowledge of kinship terms and forms of address; must be able to write 1,000 and read 2,500–3,000 characters in an ideographic writing system. *Skill Level 50:* Able to perform the duties required for Skill Level 40; serves as electronic warfare/signal intelligence voice operations chief; evaluates and defines job requirements and systems capabilities for communication intelligence linguists. Must attain a foreign language proficiency equivalent to that of a well-educated native speaker and have the following minimum capabilities: vocabulary (aural recognition) of 15,000-plus words; 3,000-plus technical term items; advanced knowledge of grammar and syntax; must be able to write 1,500 and read 2,500–3,000 characters in ideographic writing systems.

Recommendation, Skill Level 10

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing and 3 in library technology; in the upper-division baccalaureate category, 6 semester hours in written communication skills, and credit in linguistics on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language(s), using the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation. In the graduate degree category, credit for foreign language proficiency on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 20

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in library technology, 3 in records administration, and 3 in geography; in the upper-division baccalaureate category, 6 semester hours in written communication skills, and credit in linguistics on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language(s), using the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* as a minimum and awarding

additional credit for foreign language proficiency on the basis of institutional evaluation. In the graduate degree category, credit for foreign language proficiency on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 30

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in library technology, 3 in records administration, 3 in geography, 3 in social sciences and humanities, 3 in human relations, and 2 in office practices; in the upper-division baccalaureate category, 6 in written communication skills, and credit in linguistics on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language(s), using the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation. In the graduate degree category, credit for foreign language proficiency on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 40

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in library technology, 3 in records administration, 3 in geography, 6 in social sciences and humanities, 3 in human relations, 3 for field experience in personnel supervision, and 2 in office practices; in the upper-division baccalaureate category, 6 semester hours in written communication skills and 3 for field experience in management, and credit in linguistics on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language(s), using the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation. In the graduate degree category, credit for foreign language proficiency on the basis of institutional evaluation (6/77).

Recommendation, Skill Level 50

In the lower-division baccalaureate/associate degree category, 3 semester hours in typing, 3 in library technology, 3 in records administration, 3 in geography, 6 in social sciences and humanities, 3 in human relations, 3 for field experience in personnel supervision, and 2 in office practices; in the upper-division baccalaureate category, 6 semester hours in written communication skills, 6 for field experience in management, 3 in introduction to management, and 3 in personnel management, and credit in linguistics on the basis of institutional evaluation. NOTE: Add credit for the specific foreign language(s), using the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Services* as a minimum and awarding additional credit for foreign language proficiency on the basis of institutional evaluation. In the graduate degree category, credit for foreign language proficiency on the basis of institutional evaluation (6/77).

MOS–98J–001

EW/SIGNAL INTELLIGENCE NONCOMMUNICATIONS INTERCEPTOR

98J10
98J20
98J30
98J40

Exhibit Dates: 3/77–Present.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Summary: Operates noncommunications intercept recording and analysis equipment; intercepts, identifies, interprets, and analyzes signals from noncommunications sources; operates electro-optical receiving and analysis equipment. NOTE: Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated. *Skill Level 10:* Erects noncommunications collection systems; conducts search for selected categories or classes of noncommunications or electro-optic signals; uses technical references and equipment to record and perform preliminary analysis and identification of intercepted signals of interest; determines line bearings of intercepted signals within specified limits; reports acquired information; posts entries and keeps logs; operates communications equipment for intelligence reporting and coordination. *Skill Level 20:* Able to perform the duties required for Skill Level 10; searches for general categories or classes of noncommunications or electro-optic signals; exercises quality control over intercept effort; uses indexed data base and technical references to fix origin of intercepted signals; performs technical analysis and threat assessments; prepares intercept and analysis reports, maps, and overlays; assists with fusion product reporting; establishes and maintains files. *Skill Level 30:* Able to perform the duties required for Skill Level 20; serves as a first-line supervisor of an intercept/analysis (noncommunications signals) activity; assigns search missions; intercepts and analyzes more complex noncommunications or electro-optic signals; prepares technical and administrative reports; makes recommendations on the employment of noncommunications intercept units; selects and establishes operations sites; interprets and analyzes technical documents and reports; performs fusion analysis and intelligence reporting. *Skill Level 40:* Able to perform the duties required for Skill Level 30; supervises noncommunications intercept, countermeasures, and analysis activities of 20 or more persons; based on requirements, determines objectives and priorities; assigns workloads and allocates resources among subordinate supervisors; coordinates activities with other units; evaluates requirements and assists in developing plans to meet future operations, personnel, and equipment needs.

Recommendation, Skill Level 10

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 2 semester hours in electronic systems operations, 2 in typing, 2 in introductory mathematics, and 2 in introduction to automatic data processing equipment, for a total of 8 semester hours (6/77).

Recommendation, Skill Level 20

In the vocational certificate category or in the lower-division baccalaureate/associate degree category, 3 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 1 in office practices, for a total of 12 semester hours (6/77).

Recommendation, Skill Level 30

In the vocational certificate category, 4 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 14 semester hours. In the lower-division baccalaureate/associate category, 4 semester hours in written communication skills, 3 in human relations, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 17 semester hours (6/77).

Recommendation, Skill Level 40

In the vocational certificate category, 6 semester hours in written communication skills, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 16 semester hours. In the lower-division baccalaureate/associate degree category, 6 semester hours in written communication skills, 3 in human relations, 3 for field experience in personnel supervision, 2 in electronic systems operations, 2 in typing, 2 in introductory mathematics, 2 in introduction to automatic data processing equipment, and 2 in office practices, for a total of 22 semester hours. In the upper-division baccalaureate category, 3 semester hours for field experience in management (6/77).

MOS–98Z–001

EW/SIGNAL INTELLIGENCE CHIEF
(EW/CRYPTOLOGIC OPERATIONS CHIEF)
(SIGNAL INTELLIGENCE OPERATIONS CHIEF)

98Z50

Exhibit Dates: 10/73–Present.

Career Management Field: 98 (Electronic Warfare/Cryptologic).

Description

Serves as the principal authority on signal intelligence matters in a high-level military organization; directs signal intelligence activities and provides technical, operational, and administrative guidance to subordinate personnel; interprets all signal intelligence requirements and develops signal intelligence tasks; evaluates military posture of other nations and determines the capabilities and limitations of U.S. signal intelligence activities to meet the determined threats; reviews, evaluates, prepares, and implements plans and orders; assists high-level commanders in appraising the effectiveness of signal intelligence operations and staff; evaluates signal intelligence functions, publications, and procedures and recommends changes; advises commanders on matters of personnel welfare, morale, assignment, utilization, promotion, privileges, discipline, and training; provides written and oral evaluations of subordinate personnel; uses counseling techniques to alleviate stress among subordinates; prepares and presents written and oral reports to high-level personnel in the Department of the Army and other national agencies involved in the preparation of national security and intelligence policy; manages equipment, material, and support service resources. NOTE: May have progressed to 98Z50 from 98B40 (EW/Cryptologic Cryptanalyst), 98C40 (EW/Signal Intelligence Analyst), 98G50 (EW/Signal Intelligence Voice Interceptor), 98J40 (EW/Signal Intelligence Noncommunications Interceptor), 05H40 (EW/Signal Intelligence Morse Interceptor), or 05K40 (EW/Signal Intelligence Non-Morse Interceptor); may have acquired proficiency in one or more foreign languages through the performance of a previously held MOS. Many of the duties required for this MOS involve highly classified materials, equipment, and activities; therefore, not all the competencies and knowledges associated with the MOS were evaluated.

Recommendation

In the lower-division baccalaureate/associate degree category extending into the upper-division baccalaureate category, 2 semester hours in electronic systems operations, 2 in introductory mathematics, 2 in typing, 2 in introduction to automatic data processing equipment, 3 in records administration, 3 in industrial security, 3 in social sciences and humanities, 3 in geography, 3 in human relations, 3 for a counseling practicum, 3 in oral communication skills, 6 in written communication skills, 6 for field experience in management, 3 in introduction to management, 3 in personnel management, and 3 in office management; *if the duty assignment was chief instructor in a formal training facility,* 3 additional semester hours for an internship in education. NOTE: Persons holding 98Z50 may have acquired proficiency in one or more foreign languages through the performance of a previously held MOS. Add credit for the specific foreign language(s) by referring to the recommendation in the formal course section of the *Guide to the Evaluation of Educational Experiences in the Armed Service* and modifying the recommendation on the basis of institutional evaluation (6/77).

Army Warrant Officer MOS Exhibits

MOS–011A–001

MILITARY PHYSICIAN'S ASSISTANT

011A0 (formerly 911A0)

Exhibit Dates: 8/73–Present.

Career Pattern

May have progressed to Military Physician's Assistant from MOS 91B (Medical Specialist), MOS 91C (Clinical Specialist), MOS 91D (Operating Room Specialist), MOS 91S (Preventive Medicine Specialist), MOS 91Z (Medical Senior Sergeant), or MOS 92B (Medical Laboratory Specialist); has from 3 to 10 years of clinical experience prior to appointment as a Physician's Assistant.

Description

Working under the guidance and supervision of a physician, provides general medical care for the sick and injured; makes diagnoses of diseases, disorders, and injuries; applies preventive, diagnostic, and therapeutic medical and surgical procedures; obtains and records medical data and case histories on prescribed forms; recognizes potential zoonotic and foodborne disease problems. NOTE: Appointment to Warrant Officer as a Physician's Assistant is based upon satisfactory completion of the two-year Physician's Assistant program of instruction at the Army's Academy of Health Sciences, Fort Sam Houston, Texas. This program consists of 52 weeks of didactic instruction and 52 weeks of clinical practicum. Didactic instruction is provided in human anatomy and physiology, clinical physiology, inorganic chemistry, biological chemistry, community health, mental health, pharmacology, clinical medicine, clinical surgery, pediatrics, pathology and laboratory practices, preventive medicine methods and practices, and medical and surgical procedures. Practica of either four weeks or six weeks duration are taken in the following clinics: obstetrics/gynecology, pediatric, EENT (eye, ear, nose, and throat), neuro-psychiatric, dermatology, orthopedic, surgical medicine; clinical practica are also taken to preventive medicine, ambulatory care, and laboratory service.

Recommendation

In the upper-division baccalaureate category, 60 semester hours in physician assisting (6/77).

MOS–021A–001

CLUB MANAGER

021AO

Exhibit Dates: Pending evaluation.

MOS–031A–001

BANDMASTER

031A0 (formerly 5241)

Exhibit Dates: 2/46–Present.

Career Management Field: Normally progresses to Bandmaster from an Army enlisted bandsman (currently any MOS in Career Management Field 97, Band, which includes MOS 02B through MOS 02Z), completing from one to three preparatory programs of instruction.

Description

Possesses skills and understanding in applied music ensemble playing, basic music theory, planning concerts, conducting, etc.; acquires basic understanding of the techniques of all wind and percussion instruments; has extensive and practical experience in arranging music for bands and jazz ensembles, and in some cases, choral groups; conducts band literature equivalent to that included in upper-division and graduate courses; acquires a thorough grasp of military marching evolutions, commands, and procedure; is responsible for band administration and the supervision of the musical development of band units; directs personnel, administration, supply (uniforms, instruments, and publications), and repair and maintenance activities of band units; has fiscal control of band units; routinely serves as a company commander; may serve as an instructor in the Army element of the School of Music.

Recommendation

In the lower-division baccalaureate/associate degree category, 16 semester hours in music theory (includes harmony, sight singing, ear training, and keyboard), 8 in applied music, 4 in performing ensemble, 3 in woodwind, brass, and percussion techniques, and 3 in personnel supervision, and additional credit in applied music on the basis of institutional evaluation, for a minimum total of 34 semester hours. In the upper-division baccalaureate category, 6 semester hours in arranging, 4 in performing ensemble, 6 in conducting, 2 in marching band techniques, and 3 for field experience in management, and additional credit in introduction to management on the basis of institutional evaluation, for a minimum total of 21 semester hours; *if the duty assignment was an instructor in the Army element of the School of Music*, credit in teaching methods in music, education materials, evaluation and testing in education, and for a practicum in education on the basis of institutional evaluation, for a minimum total of 21 semester hours. In the graduate degree category, 3 semester hours in conducting, 3 in band administration, and 2 in performing ensemble, and additional credit in educational administration on the basis of institutional evaluation, for a minimum total of 8 semester hours (4/77).

MOS–041A–001

FOOD SERVICE TECHNICIAN
(FOOD SERVICE ADVISER, 941A0)
(FOOD ADVISOR, 4114)

041A0 (formerly 941A0)

Exhibit Dates: Pending evaluation.

MOS–051A–001

MORSE INTERCEPT TECHNICIAN

051A0

Exhibit Dates: Pending evaluation.

MOS–052A–001

NON-MORSE INTERCEPT TECHNICIAN

052A0

Exhibit Dates: Pending evaluation.

MOS–053A–001

SPECIAL IDENTIFICATION TECHNICIAN

053A0

Exhibit Dates: Pending evaluation.

MOS–100B–001

UTILITY/OBSERVATION HELICOPTER PILOT

100B0

Exhibit Dates: Pending evaluation.

MOS–100C–001

CARGO HELICOPTER PILOT

100C0

Exhibit Dates: Pending evaluation.

MOS–100D–001

HEAVY LIFT HELICOPTER PILOT

100D0

Exhibit Dates: Pending evaluation.

MOS–100E–001

ATTACK HELICOPTER PILOT

100E0

Exhibit Dates: Pending evaluation.

MOS–100Q–001

COMBAT SERVICE/SUPPORT FIXED-WING PILOT

100Q0

Exhibit Dates: Pending evaluation.

MOS–100R–001

COMBAT SURVEILLANCE FIXED-WING PILOT

100R0

Exhibit Dates: Pending evaluation.

MOS–103A–001

AVIATION TECHNICIAN

103A0

Exhibit Dates: Pending evaluation.

MOS–160A–001

AVIATION MAINTENANCE TECHNICIAN
(AVIATION TECHNICIAN)

160A0 (formerly 103A0)

Exhibit Dates: Pending evaluation.

MOS–201A–001

METEOROLOGY TECHNICIAN

201A0

Exhibit Dates: 6/61–Present.

Career Pattern

May have progressed to Meteorology Technician from MOS 35D (Meteorological Equipment Repairman), MOS 93E (Meteorological Observer), or MOS 93F (Ballistic Meteorology Crewman or Field Artillery Meteorological Crewman).

Description

Normally serves as the chief of a meteorology section that provides ballistic meteorological data, not involving weather forecasting to artillery units; is responsible for the organization and operation of the section and its physical facilities as well as the supervision and training of enlisted specialists in the section; manages and allocates resources to install, operate, and maintain mercurial, aneroid, electronic, optical, and mechanical meteorological instruments and equipment; determines layout of ballistic meteorological stations and facilities and plans equipment installation; knows methods of observing and plotting meteorological data, inspects and tests meteorological equipment, determines operating procedures and techniques, and allocates work to subordinates; determines requirements for, procures, and manages supplies, repair parts, and equipment; supervises calibration of graphs and other recording devices; evaluates ballistic meteorological data and produces messages to be transmitted to artillery units; instructs subordinates on established maintenance techniques and operating procedures; may serve as an instructor at a formal service school; may be employed in research, development, and evaluation activities.

Recommendation

In the vocational certificate category, 2 semester hours in electronic laboratory and 1 in basic mathematics. In the lower-division baccalaureate/associate degree category, 3 semester hours for field experience in management, 3 in industrial/human relations, 2 in electronic laboratory, 1 in basic mathematics, and 1 in meteorology, for a total of 10 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 in management electives (3/77).

MOS–202A–001

BIOMEDICAL EQUIPMENT REPAIR TECHNICIAN

202A0

Exhibit Dates: Pending evaluation.

MOS–211A–001

TARGET ACQUISITION RADAR TECHNICIAN (FIELD ARTILLERY RADAR TECHNICIAN)

211A0

Exhibit Dates: 10/66–Present.

Career Pattern

May have progressed to Target Acquisition Radar Technician from MOS 13W (Field Artillery Target Acquisition Senior Sergeant), MOS 17B (Field Artillery Radar Crewman), MOS 17C (Field Artillery Target Acquisition Specialist), MOS 17Z (Combat Surveillance and Target Acquisition (NCO), MOS 24P (Defense Acquisition Radar Mechanic), MOS 26B (Weapons Support Radar Repairman), MOS 26C (Combat Area Surveillance Radar Repairer), MOS 26D (Ground Control Approach Radar Repairer), or MOS 26W (Radar Maintenance Supervisor - Inspector).

Description

Normally serves as Chief of a section or platoon engaged in maintaining and operating field artillery radars to provide target location; has a detailed knowledge of the operational aspects of field artillery radar, the technical principles of equipment construction, the scope and techniques of field artillery radar, and safety precautions relevant to operations and maintenance; advises on technical considerations involving field artillery radar; coordinates the activities of field artillery radar personnel; supervises the movement and emplacement of radar and associated equipment; interprets technical data, implements changes in inspections, repair, and test procedures, and instructs personnel on new or revised techniques of radar electronics maintenance and employment; inspects completed work and assists personnel in isolating and correcting malfunctions in equipment; must be able to transmit target and counterfire data to support artillery units; reviews maintenance records; supervises the requisitioning of tools, repair parts, technical supplies, publications, and equipment; may serve as an instructor at a formal training school, on a headquarters staff, or in research, development, test, and evaluation activities.

Recommendation

In the vocational certificate category, 6 semester hours in electronics theory and laboratory and 2 in uses of basic hand tools. In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics theory and laboratory, 3 in personnel supervision, 3 for field experience in management, 2 in industrial/human relations, 2 in technical report writing, and 2 in maintenance management, for a total of 18 semester hours (3/77).

MOS–212Z–001

ARMY ATTACHÉ ADMINISTRATIVE OFFICER

212Z

Exhibit Dates: Pending evaluation.

MOS–214E–001

MISSILE SYSTEM TECHNICIAN PERSHING (FIELD ARTILLERY MISSILE SYSTEM TECHNICIAN, PERSHING)

214E0

Exhibit Dates: 12/62–Present.

Career Pattern

May have progressed to Missile System Technician, Pershing, from MOS 15E (Pershing Missile Crewman), MOS 21G (Pershing Electronics Materiel Specialist), MOS 21L (Pershing Electronics Repairman), or MOS 46N (Pershing Electrical-Mechanical Repairer).

Description

Supervises the maintenance of field artillery missiles, fire control systems, and missile launching and handling equipment; oversees assembly of missiles; supervises utilization, testing, and maintenance of tools, specialized test sets, cable sets, and warhead assemblies; inspects and directs testing, servicing, and repair of missile launching and guidance equipment; supervises maintenance of missile components, determines repair/replacement requirements, insures that repairs and adjustments are made, and makes final inspections; advises superiors on technical and tactical considerations affecting the employment of missiles; serves as a technical advisor on matters of preventive maintenance and inspection of radar, missiles, fire control systems, missile launching and handling equipment, and on-missile materiel; observes and corrects improper technical procedures and repair techniques; coordinates maintenance techniques and standards with preventive maintenance personnel to insure uniformity; implements changes in inspection, repair, and test procedures and instructs personnel on new techniques of missile maintenance and repair; insures that equipment modifications are accomplished; examines and interprets procedures, directives, schematics, and technical publications for data pertinent to the employment of radar, missiles, and related equipment and transmits data to subordinate personnel; reviews operating and maintenance records and tests equipment to ascertain adequacy of maintenance; monitors storage of missile guidance and motor sections; insures compliance with safety and security regulations and procedures; writes and reviews technical reports; reviews and consolidates requests for tools, spare parts, technical supplies, publications, and equipment; may serve as an instructor at a formal training school or be employed in missile procurement activities.

Recommendation

In the vocational certificate category, 3 semester hours in electronics laboratory and 1 in care and use of hand tools. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics laboratory, 3 in personnel supervision, 3 for field experience in management, 3 in technical report writing, 2 in maintenance management, and 2 in industrial/human relations, and additional credit in instructional methods on the basis of institutional evaluation, for a minimum total of 16 semester hours (3/77).

MOS–214G–001

MISSILE SYSTEM TECHNICIAN LANCE (FIELD ARTILLERY MISSILE SYSTEM TECHNICIAN, LANCE)

214G0

Exhibit Dates: 2/75–Present.

Career Pattern

May have progressed to Missile System Technician, Lance, from MOS 15D (Lance Missile Crewman) or MOS 27D (Lance Missile System Repairman).

Description

Supervises the maintenance of field artillery missiles, fire control systems, and missile launching and handling equipment; oversees assembly of missiles; supervises utilization, testing, and maintenance of tools, specialized test sets, cable sets, and warhead assemblies; inspects and directs testing, servicing, and repair of missile launching and guidance equipment; supervises maintenance of missile components, determines repair/replacement requirements, insures that repairs and adjustments are made, and makes final inspections; advises superiors on technical and tactical considerations affecting the employment of missiles; serves as a technical advisor on matters of preventive maintenance and inspection of radar, missiles, fire control systems, missile launching and handling equipment, and on-missile materiel; observes and corrects improper technical procedures and repair techniques; coordinates maintenance techniques and standards with preventive maintenance personnel to insure uniformity; implements changes in inspection, repair, and test procedures and instructs personnel on new techniques of missile maintenance and repair; insures that equipment modifications are accomplished; examines and interprets procedures, directives, schematics, and technical publications for data pertinent to the employment of radar, missiles, and related equipment and transmits data to subordinate personnel; reviews operating and maintenance records and tests equipment to ascertain adequacy of maintenance; monitors storage of missile guidance and motor sections; insures compliance with safety and security regulations and procedures; writes and reviews technical reports; reviews and consolidates requests for tools, spare parts, technical supplies, publications, and equipment; may serve as an instructor at a formal training school or be employed in missile procurement activities.

Recommendation

In the vocational certificate category, 3 semester hours in electronics laboratory and 1 in care and use of hand tools. In the lower-division baccalaureate/associate degree category, 3 semester hours in electronics labora-

tory, 3 in personnel supervision, 3 for field experience in management, 3 in technical report writing, 2 in maintenance management, and 2 in industrial/human relations, and additional credit in instructional methods on the basis of institutional evaluation, for a minimum total of 16 semester hours (3/77).

MOS–221B–001

MISSILE ASSEMBLY TECHNICIAN, NIKE

221B0

Exhibit Dates: 1/69–Present.

Career Pattern

May have progressed to Missile Assembly Technician, Nike, from MOS 22N (Nike-Hercules Missile-Launcher Repairman), MOS 23W (Nike Maintenance Chief), MOS 24U (Hercules Electronics Mechanic), or MOS 28M (Anti-Ballistic Missile Maintenance Specialist).

Description

Supervises the assembly, testing, and maintenance of all components of Air Defense/Ballistic Missile Defense (AD/BMD) missiles; knows operations, theory, and on-line maintenance of missile testing and servicing equipment associated with warhead sections, fuses, electronic and mechanical on-missile guidance equipment, hydraulic systems, and propulsion units; knows theory and function of hydraulic systems; vacuum tubes, solid state devices, and associated circuits and circuit elements; performs checkouts of electronic, electrical, mechanical, electromechanical, and hydraulic systems; knows authorized procedure for modifying existing equipment; knows AD/BMD missile transport, storage, and safety program regulations and policies for nuclear and explosive components; knows theory, operation, and maintenance procedures for all launching area equipment; oversees uncrating and mating of missiles, rocket motor assemblies, and warhead sections; supervises emplacement of missiles and launching area equipment in mobile air defense units; knows maintenance record keeping and inventory control procedures; trains and evaluates missile maintenance personnel in troubleshooting and maintenance procedures; advises commander on the technical and tactical aspects of missile employment, emplacement, readiness status, and firing.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in troubleshooting, 3 in technical mathematics, 3 in basic electronics, 3 in AC/DC circuit analysis, 3 in transistor theory, 3 in maintenance management, 2 in instrumentation, 2 in controls, 2 in pulse circuits, 2 in inventory management, 2 in personnel supervision, 2 in report writing, 1 in maintenance shop record keeping, and additional credit in controls, transistor theory, mathematics, hydraulics, and public speaking/communication on the basis of institutional evaluation, for a minimum total of 34 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 in management electives; *if rank was CW2*, 2 additional semester hours for field experience in management, for a total of 8 semester hours; *if rank was CW3*, 4 additional semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW4*, 6 additional semester hours for field experience in management, for a total of 12 semester hours; *if duty assignment was platoon leader*, credit in leadership and supervision on the basis of institutional evaluation (5/77).

MOS–221C–001

MISSILE MAINTENANCE TECHNICIAN, SAFEGUARD

221C0

Exhibit Dates: 3/72–3/78. NOTE: Effective 4/78, MOS 221C was discontinued and its functions were incorporated into MOS 221B, Missile Assembly Technician, Nike. The skills, competencies, and knowledge required to maintain the Safeguard missile are comparable to those required to maintain the Nike missile. Use the recommendation in the exhibit, MOS–221B–001.

MOS–222B–001

MISSILE FIRE CONTROL TECHNICIAN, NIKE (AIR DEFENSE MISSILE FIRE CONTROL TECHNICIAN, NIKE)

222B0

Exhibit Dates: 1/69–Present.

Career Pattern

May have progressed to Missile Fire Control Technician, Nike, from MOS 16Z (Air Defense Artillery Senior Sergeant), MOS 22L (Nike Test Equipment Repairman), MOS 22N (Nike-Hercules Missile-Launcher Repairman), MOS 23N (Nike Track Radar Repairman), MOS 23U (Nike High Power Radar-Simulator Repairman), MOS 23W (Nike Maintenance Chief), MOS 24P (Defense Acquisition Radar Mechanic), MOS 24Q (Nike-Hercules Fire Control Mechanic), MOS 24U (Hercules Electronics Mechanic), MOS 26H (Air Defense Radar Repairman), or MOS 34G (Fire Control Computer Repairman).

Description

Supervises the repair and maintenance of Nike air defense missile control equipment, data processing and simulator equipment, and radars; supervises the movement, emplacement, and testing of fire control and auxiliary equipment; understands theory, function, and operation of solid-state devices, associated circuits, tracking radars, acquisition radars, interrogator equipment, computer data transmission systems, tactical control circuits, counter-countermeasure systems, and power supply equipment for Nike air defense missile fire control equipment; supervises the use, testing, and maintenance of tools and test equipment used in diagnosing complex malfunctions in missile electronic ground guidance and tactical data processing equipment; monitors equipment during testing, simulations, and missile firing exercises to detect operator error and/or systems malfunctions and initiates corrective action, if required; knows regulations and procedures required for working with high voltage, electromagnetic radiation, and x-rays; supervises emplacement, testing, and maintenance of fire control equipment, advises commander on employment of counter-countermeasures; knows operation, function, and maintenance of battery terminal equipment; trains maintenance and operator personnel in Nike air defense missile fire control equipment; supervises parts inventory and supply system, including procurement for Nike air defense missile; supervises maintenance and operation inventory; evaluates effectiveness of maintenance programs, operator training, and parts and equipment supply operations; prepares reports.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics troubleshooting, 3 in technical mathematics, 3 in basic electronics, 3 in AC/DC circuits analysis, 3 in transistor theory, 3 maintenance management, 2 in instrumentation, 2 in pulse circuits, 2 in digital circuitry, 2 in computer fundamentals, 2 in inventory management, 2 in personnel supervision, 2 in report writing, 1 in maintenance shop record keeping, 1 in control systems, 1 in radar/microwave theory, 1 in machine language, and additional credit in electronics, mathematics, data processing, computer science, and public speaking/communication on the basis of institutional evaluation, for a minimum total of 39 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 in management electives; *if rank was CW2*, 2 additional semester hours for field experience in management, for a total of 8 semester hours; *if rank was CW3*, 4 additional semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW4*, 6 additional semester hours for field experience in management, for a total of 12 semester hours; *if duty assignment was platoon leader*, credit in leadership and supervision on the basis of institutional evaluation (5/77).

MOS–223B–001

MISSILE SYSTEM TECHNICIAN, IMPROVED HAWK

223B0 (formerly 223D0 and 251D0)

Exhibit Dates: 10/71–Present. NOTE: MOS 223B was established in 4/78. It is a consolidation of two previous MOS's, MOS 223D (Air Defense Missile System Technician, Improved Hawk) and MOS 251D (Air Defense Missile System Repair Technician, Improved Hawk). Because these two MOS's represented substantially the same skills, competencies, and knowledge required for MOS 223B, persons who held MOS 223D or MOS 251D are eligible for the credit recommended in this exhibit for MOS 223B. However, readers should also note that many persons who held two other previous MOS's, MOS 223C (Air Defense Missile System Technician, Hawk) and MOS 251C (Air Defense Missile System Repair Technician, Hawk) were reassigned to MOS 223B. Because of the additional training normally required for personnel to change over from the Hawk missile system to the Improved Hawk missile system, the recommendation in this exhibit should be applied to a person who held MOS 223C or MOS 251C only after an institutional evaluation confirms that the individual acquired substantially the same skills, competencies, and knowledge described for MOS 223B.

Career Pattern

May have progressed to Missile System Technician, Improved Hawk, from any enlisted MOS in Improved Hawk or Hawk missile system repair or mechanics MOS in Career Management Field 23 (subfields 233, 234, 235, or 236).

Description

Supervises the assembly, inspection, and repair of the Improved Hawk missile system, simulator equipment, and associated test equipment; understands theory, functions, and operation of on-missile guidance equipment, ranging radars, pulse radars, launchers, fire control equipment, simulator stations, computers, and automatic data transmission systems used with the Improved Hawk air defense missile system and associated power generation and air-conditioning equipment; knows theory and functions of solid-state devices and associated circuits and circuit elements; knows how to assemble and test components of missile, radar, and fire control equipment; supervises testing of the system specialized test sets and procedures; supervises repairmen in isolating malfunctions and in repairing, adjusting, and aligning systems and system components; advises personnel on equipment modifications and of changes to inspection, repair, test, and maintenance calibration procedures; knows safety procedures and regulations pertaining to high-energy electromagnetic radiation hazards, high-voltage hazards, and high-pressure hydraulic equipment; knows missile transport and storage methods; knows operation, function, and maintenance of battery terminal equipment; trains personnel in safety and security procedures and maintenance techniques; interprets technical publications; supervises parts inventory and supply system, including procurement; reviews and prepares reports; evaluates supply and maintenance problems, advises superiors, and recommends corrective actions; may serve as an instructor at a formal training school or be employed in missile procurement activities.

Recommendation

In the lower-division baccalaureate/associate degree category, 6 semester hours in technical mathematics, 6 in electronics troubleshooting, 3 in basic electronics, 3 in AC/DC circuit analysis, 3 in transistor theory, 3 in instrumentation, 2 in pulse circuits, 2 in control systems, 2 in digital circuitry, 2 in computer fundamentals, 1 in radar/microwave theory, 1 in machine language, 3 in maintenance management, 2 in inventory management, 2 in personnel supervision, 2 in report writing, 1 in maintenance shop record keeping, and additional credit in electronics, mathematics, data processing, computer science, and public speaking/communication on the basis of institutional evaluation, for a minimum total of 44 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 in management electives; *if rank was CW2*, 2 additional semester hours for field experience in management, for a total of 8 semester hours; *if rank was CW3*, 4 additional semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW4*, 6 additional semester hours for field experience in management, for a total of 12 semester hours; *if duty assignment was platoon leader*, credit in leadership and supervision on the basis of institutional evaluation (5/77).

MOS–223D–001

AIR DEFENSE MISSILE SYSTEM TECHNICIAN, IMPROVED HAWK

223D0

Exhibit Dates: 10/71–3/78. NOTE: Effective 4/78, MOS 251D was discontinued and its functions were incorporated into MOS 223B, Missile System Technician, Improved Hawk. See the exhibit, MOS–223B–001.

MOS–224B–001

SHORT RANGE AIR DEFENSE SYSTEMS TECHNICIAN
(CHAPARRAL/VULCAN SYSTEM TECHNICIAN)

224B0

Exhibit Dates: 12/68–Present.

Career Pattern

May have progressed to Short Range Air Defense Systems Technician from MOS 24M (Vulcan System Mechanic), MOS 24N (Chaparral System Mechanic), MOS 27B (Land Combat Support System Test Specialist), MOS 27F (Chaparral/Vulcan Air Defense System Repairman or Vulcan Repairer), MOS 27G (Redeye Missile System Repairman or Chaparral/Redeye Repairer), or MOS 27Z (LCSS Missile Maintenance Chief).

Description

Supervises repair and maintenance of the Chaparral and Vulcan light air defense electronic systems and land combat support missile systems, including forward area alert radar (FAAR) and target alerting identification systems; supervises operation of maintenance shops, on-site maintenance activities, and shop quality control activities; knows theory, operation, and functioning of Chaparral/Vulcan systems and associated equipment, including test and training equipment and motor support units; has knowledge of electricity, electronics, pneumatics, hydraulics, and mechanics; reads, uses, and interprets schematic diagrams and other technical publications; uses special tools and test equipment to maintain, adjust, troubleshoot, and repair system equipment; organizes, supervises, manages, and evaluates most phases of maintenance programs peculiar to the system and to its support equipment; acts in the capacity of maintenance officer in the absence of a line officer; coordinates activities with other maintenance organizations; supervises 20–50 subordinates; advises and assists in establishing training programs for operators and crewmen; knows and provides staff supervision for supply functions; supervises inventory and purchasing of maintenance parts, tools, and equipment; knows safety procedures pertaining to the missile systems and associated equipment; writes technical and administrative reports; advises superiors on the technical and tactical capabilities, limitations, and employment of the missile systems; may serve as an instructor at a formal training school or as a technical advisor on a headquarters staff.

Recommendation

In the vocational certificate category, 6 semester hours in electricity/electronics laboratory, 5 in automotive mechanics, 5 in diesel mechanics, 5 in industrial truck mechanics, 3 in troubleshooting, 1 in shop practices and procedures, and 1 in industrial safety, for a total of 26 semester hours. In the lower-division baccalaureate/associate degree category, 5 semester hours in automotive mechanics, 5 in diesel mechanics, 5 in industrial truck mechanics, 3 in basic electronics, 3 in troubleshooting, 1 in shop practices and procedures, 1 in industrial safety, 3 in maintenance management, 3 in personnel supervision, 2 in inventory management, 2 in maintenance shop record keeping, 2 in report writing, and credit in public speaking/communication on the basis of institutional evaluation, for a minimum total of 35 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 in management electives; *if rank was CW2*, 2 additional semester hours for field experience in management, for a total of 8 semester hours; *if rank was CW3*, 4 additional semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW4*, 6 additional semester hours for field experience in management, for a total of 12 semester hours; *if duty assignment was platoon leader*, credit in leadership and supervision on the basis of institutional evaluation (5/77).

MOS–241F–001

FIELD ARTILLERY MISSILE SYSTEM REPAIR TECHNICIAN, PERSHING

241F0

Exhibit Dates: 12/62–3/78. NOTE: Effective 4/78, MOS 241F was discontinued and its functions were incorporated into MOS 214E, Missile System Technician, Pershing. Use the recommendation in the exhibit, MOS–214E–001, and award additional credit on the basis of institutional evaluation.

MOS–251B–001

AIR DEFENSE MISSILE SYSTEM REPAIR TECHNICIAN, NIKE

251B0

Exhibit Dates: 1/69–3/78. NOTE: Effective 4/78, MOS 251B was discontinued and its functions were incorporated into MOS 222B, Missile Fire Control Technician, Nike. Use the recommendation in the exhibit, MOS–222B–001, and award additional credit on the basis of institutional evaluation.

MOS–251D–001

AIR DEFENSE MISSILE SYSTEM REPAIR TECHNICIAN, IMPROVED HAWK

251D0

Exhibit Dates: 10/71–3/78. NOTE: Effective 4/78, MOS 251D was discontinued and its functions were incorporated into MOS 223B, Missile System Technician, Improved Hawk. See the exhibit, MOS–223B–001.

MOS–252A–001

CALIBRATION TECHNICIAN

252A0

Exhibit Dates: Pending evaluation.

MOS–260A–001

NUCLEAR WEAPONS TECHNICIAN

260A0

Exhibit Dates: Pending evaluation.

MOS–271A–001

LAND COMBAT SUPPORT MISSILE SYSTEMS REPAIR TECHNICIAN

271A0

Exhibit Dates: 10/66–Present.

Career Pattern

May have progressed to Land Combat Support Missile Systems Repair Technician from MOS 27B (Land Combat Support System Test Specialist/Lance Repairer), MOS 27D (Lance Missile System Repairman), MOS 27E (Wire-Guided Missile Systems Repairman or TOW/Dragon Repairer), MOS 27H (Shillelagh Repairer), or MOS 27Z (LCSS Missile Maintenance Chief).

Description

Manages supply, equipment, facility, and personnel assets in the maintenance and repair of land combat support missile systems (short- or medium-distance guided missile weapon systems), associated system-designed electronic test systems, and training devices; directs the activities of personnel engaged in isolating malfunctions occuring in electronic firing and guiding systems and components; analyzes complex malfunctions; supervises repair of and modifications to systems components, including guidance control systems, optical trackers, modulators, infrared sensors, conduct-of-fire trainers, missiles, and specialized test equipment; oversees supply management and preparation of work reports and maintenance records; forecasts supply requirements; insures that final inspections and checkout procedures are conducted; examines, interprets, and disseminates technical material, including orders, bulletins, and manuals; instructs enlisted specialists in troubleshooting techniques, diagnostic procedures, and the interpretation of tests on system components, circuits, and optical elements; knows techniques and safety procedures for handling explosive components; may serve as instructor at a formal training school.

Recommendation

In the vocational certificate category, 6 semester hours in electronics theory and laboratory and 2 in use of basic hand tools. In the lower-division baccalaureate/associate degree category, 6 semester hours in electronics theory and laboratory, 3 in personnel supervision, 3 for field experience in management, 3 in industrial/human relations, 2 in maintenance management, and 1 in technical report writing for a total of 18 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training and 3 in management electives (3/77).

MOS–285A–001

ELECTRONIC WARFARE/INTERCEPT EQUIPMENT REPAIR TECHNICIAN

285A0

Exhibit Dates: Pending evaluation.

MOS–286A–001

COMMUNICATIONS-ELECTRONICS EQUIPMENT REPAIR TECHNICIAN

286A0

Exhibit Dates: Pending evaluation.

MOS–287A–001

DATA PROCESSING SYSTEMS REPAIR TECHNICIAN

287A0

Exhibit Dates: Pending evaluation.

MOS–290A–001

TELECOMMUNICATIONS TECHNICIAN

290A0

Exhibit Dates: Pending evaluation.

MOS–310A–001

UTILITIES OPERATION AND MAINTENANCE TECHNICIAN

(UTILITIES MAINTENANCE TECHNICIAN)

310A0 (formerly 521A0)

Exhibit Dates: Pending evaluation.

MOS–401A–001

AIRDROP EQUIPMENT REPAIR TECHNICIAN

401A0 (formerly 461A0)

Exhibit Dates: Pending evaluation.

MOS–411A–001

AMMUNITION TECHNICIAN

411A0

Exhibit Dates: 1/65–Present.

Career Pattern

May have progressed to Ammunition Technician from MOS 55B (Ammunition Specialist), MOS 55D (Explosive Ordnance Disposal Specialist), MOS 55X (Ammunition Inspector), or MOS 55Z (Ammunition Foreman).

Description

Manages personnel, equipment, supply, and facility assets for the receipt, storage, and issue of all classes of ammunition; plans, coordinates and supervises 50–150 personnel engaged in the requisitioning, receipt, inspection, surveillance, testing, maintenance, repair, modification, storage, issue, crating, packaging, transportation, and destruction of ammunition, missiles, rockets, explosive components, and non-nuclear warheads; plans for safe and efficient employment of munition and high explosives; conducts surveillance inspections and determines serviceability of conventional ammunition; monitors handling and storage of special ammunition; knows policies and procedures for technical escort of chemical, biological, and nuclear materials and radioactive wastes; provides technical assistance regarding conventional ammunition to field activities; interprets technical publications and trains enlisted specialists; classifies, evacuates, or determines disposition of captured or damaged ammunition; supervises load testing and calibration and use of ammunition test and handling equipment; participates in the investigation of accidents; prepares and reviews reports, including investigative reports; is familiar with military and civilian tariffs and the logistics of supply and transportation; insures compliance with safety and security regulations pertaining to ammunition and missiles; knows Occupational Safety and Health Act (OSHA) regulations and procedures; knows physiological effects of, protective measures against, and emergency and first aid procedures employed after exposure to toxic chemicals; knows firefighting procedures for conventional and special ammunition; plans and conducts safety programs for personnel handling ammunition and missiles; reports on problem areas related to accidents and changes to procedures for storing and handling hazardous chemicals; establishes and maintains control over ammunition stocks and insures accountability of munitions material; may serve as detachment commander, instructor at a formal service school, advisor to members of allied armies, or advisor to research, development, test, and evaluation activities.

Recommendation

In the lower-division baccalaureate/associate degree category, 8 semester hours in physical science, 5 in industrial safety, 3 in basic electronics, 3 in personnel supervision, 3 in inventory management, 3 in report writing, 2 in maintenance shop record keeping, 2 in security practices, and additional credit in basic chemistry, chemistry of explosives, basic physics, nuclear physics, and public speaking/communication on the basis of institutional evaluation, for a minimum total of 29 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training, 3 in management electives, and 3 in logistics management, for a minimum total of 9 semester hours; *if rank was CW2*, 2 additional semester hours for field experience in management, for a total of 11 semester hours; *if rank was CW3*, 4 additional semester hours for field experience in management, for a total of 13 semester hours; *if rank was CW4*, 6 additional semester hours for field experience in management, for a total of 15 semester hours; *if duty assignment was a platoon leader*, credit in leadership and supervision on the basis of institutional evaluation (5/77).

MOS–4114–001

FOOD ADVISOR

4114

Exhibit Dates: Pending evaluation.

MOS–421A–001

ARMAMENT REPAIR TECHNICIAN

421A0 (formerly 4808)

Exhibit Dates: 2/48–Present.

Career Pattern

May have progressed to Armament Repair Technician from an enlisted Small Arms Repairman (currently MOS 45B), Artillery Repairman (currently MOS 45L), Tank Turret Repairman (currently MOS 45K), or Armament Maintenance Foreman (currently MOS 45Z).

Description

Manages activities and personnel engaged in the maintenance and repair of small arms, artillery and armor weapons, and crew-served weapons; oversees the inspection, repair, replacement, and modification of armament materiel; supervises inspections and check-out procedures; directs shop operations including workflow planning; requisitioning parts and supplies, inspecting maintenance procedures, and providing technical assistance to maintenance personnel in artillery or armor units; must know nomenclature design, operation, and employment of the Army's current inventory of field artillery weapons, armor weapons, and small arms; trains enlisted specialists in the use of shop equipment and power tools, in inspection and test procedures, and in the disassembly, repair, and adjustment of armament materiel; uses technical publications and interprets specifications, must be able to use automated and manual systems for supply of technical publications, tools, repair parts, and related maintenance supplies; must know regulations and procedures pertaining to physical security, accountability, and shipment of weapons; may serve as chief of a team, section, or platoon in field activities; may serve as instructor in a formal training school.

Recommendation

In the vocational certificate category, 3 semester hours in the use and care of hand and power tools. In the lower-division baccalaureate/associate degree category, 3 semester hours in personnel supervision, 3 for field experience in management, 3 in industrial/human relations, 3 in maintenance/shop management and record keeping, 3 in use and care of hand and power tools, and 1 in industrial safety, for a total of 16 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and training (3/77).

MOS–4808–001

ARMAMENT REPAIR TECHNICIAN

4808

See the exhibit, MOS–421A–001.

MOS–441A–001

REPAIR SHOP TECHNICIAN

441A0

Exhibit Dates: Pending evaluation.

MOS–461A–001

AIRDROP EQUIPMENT REPAIR TECHNICIAN

461A0

Exhibit Dates: Pending evaluation.

MOS–500A–001

MARINE DECK OFFICER

500A0

Exhibit Dates: Pending evaluation.

MOS–510A–001

MARINE ENGINEERING OFFICER

510A0

Exhibit Dates: Pending evaluation.

MOS–521A–001

UTILITIES OPERATION AND MAINTENANCE TECHNICIAN

(UTILITIES MAINTENANCE TECHNICIAN)

521A0

Exhibit Dates: Pending evaluation.

MOS–5241–001

BANDMASTER

5241

See the exhibit, MOS–031A–001.

MOS–621A–001

ENGINEER EQUIPMENT REPAIR TECHNICIAN

621A0

Exhibit Dates: Pending evaluation.

MOS–630A–001

AUTOMOTIVE REPAIR TECHNICIAN

630A0

Exhibit Dates: Pending evaluation.

MOS–711A–001

PERSONNEL TECHNICIAN
(UNIT PERSONNEL TECHNICIAN)

711A0

Exhibit Dates: 1/63–Present.

Career Pattern

May have progressed from any enlisted personnel MOS in Career Management Field 17 (Administration), subfield 712 (Personnel); MOS 75B (Personnel Administration Specialist or Unit Clerk), MOS 75C (Personnel Management Specialist), MOS 75D (Personnel Records Specialist), MOS 75E (Personnel Actions Specialist), or MOS 75Z (Personnel Senior Sergeant).

Description

Supervises administrative activities related to personnel management, including office organization and operation, counseling of personnel, and personnel records; develops input for and interprets output from automated systems supporting the personnel function; oversees the selection and use of office equipment, including typewriters, calculators, and word processing equipment; supervises military and civilian personnel engaged in specialized administrative and personnel management duties; assists in hiring and evaluating civilian employees; participates in personnel selection, duty assignment, evaluation, and training to assure full utilization of personnel; counsels personnel from a wide variety of backgrounds assisting them with career and personal decisions; makes referrals of individuals with problems to the chaplain, Judge Advocate General, medical personnel, or other appropriate agency, if necessary; initiates and prepares correspondence, messages, and reports; interprets regulations; makes decisions based on a variety of information sources and requirements; processes changes to manpower documents.

Recommendation

In the vocational certificate category, 3 semester hours in administrative office management, 3 in business communications, 3 in records management, 3 in introduction to computer concepts, and 6 for field experience in management, for a total of 18 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in administrative office management, 3 in business communications, 3 in records management, 3 in introduction to computer concepts, 3 in personnel supervision, and 6 for field experience in management, for a total of 21 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management and 3 in counseling; *if rank was CW2*, 3 additional semester hours for field experience in personnel management and counseling, for a total of 9 semester hours; *if rank was CW3*, 6 additional semester hours for field experience in personnel management and counseling, for a total of 12 semester hours; *if rank was CW4*, 9 additional semester hours for field experience in personnel management and counseling, for a total of 15 semester hours; *if duty assignment was platoon leader*, additional credit in leadership and supervision on the basis of institutional evaluation. In the graduate degree category, credit for an internship in personnel management and counseling on the basis of institutional evaluation (10/77).

MOS–712A–001

GENERAL STAFF ADMINISTRATIVE TECHNICIAN

712A0

Exhibit Dates: 1/63–Present.

Career Pattern

Normally progresses to General Staff Administrative Technician from Warrant Officer MOS 711A, Personnel Technician, or through demonstration of outstanding skills in stenography in an enlisted MOS.

Description

Performs general and technical administrative duties in an office headed by lieutenant generals or higher; supervises the office clerical staff; develops office procedures; prepares and reviews correspondence; researches and prepares reports, presentations, and speeches; interprets regulations and directives; coordinates with other offices to establish and maintain formal and informal lines of communication; performs some public relations and communication duties, including dealing with news media; acts as protocol officer; when assigned in foreign countries advises command officers on area geography, culture, politics, and other social factors.

Recommendation

In the vocational certificate category, 6 semester hours in public relations, 3 in business communications, 3 in report writing, 3 in office procedures, 3 in human relations skills, 3 in record keeping, and 3 in office management, for a total of 24 semester hours; *if the duty position requires stenography skills*, additional credit in dictation and transcription and typing on the basis of institutional evaluation. In the lower-division baccalaureate/associate degree category, 6 semester hours in English communication, 6 in social science, 6 in public relations, 3 in business communications, 3 in report writing, 3 in office procedures, 3 in interpersonal communication skills, 3 in record keeping, and 3 in office management, for a total of 36 semester hours; *if the duty position requires stenographer skills*, additional credit in dictation and transcription and typing on the basis of institutional evaluation. In the upper-division baccalaureate category, 6 semester hours in social science electives, and 3 in protocol. In the graduate degree category, credit in management and in methods of research on the basis of institutional evaluation (10/77).

MOS–713A–001

LEGAL ADMINISTRATIVE TECHNICIAN

713A0

Exhibit Dates: 1/65–Present.

Career Pattern

May have progressed to Legal Administrative Technician from an enlisted legal specialist, currently MOS 71D (Legal Clerk) or MOS 71E (Court Reporter).

Description

Performs the duties of a paralegal as well as the duties of a legal administrator; manages the office of the Staff Judge Advocate or the headquarters exercising general court-martial jurisdiction; analyzes legal and administrative documents, claims, and records of court-martial and non-judicial punishment; drafts documents dealing with civil matters, such as wills, bills of sale, and separation and support agreements; interprets civil statutes and Army regulations governing the administration of military justice, contracts, and the procurement program; provides technical supervision to unit legal personnel and office staff; issues orders appointing members of courts, boards, and committees; receives, processes, and authenticates official technical legal correspondence and makes referrals to attorneys or to other agencies when required; maintains law and administrative libraries; researches cases and other references to support legal, administrative, or military decisions; maintains statistical information; participates in manpower surveys; acts as office security manager; supervises military and civilian personnel; is directly responsible for office financial and budgetary matters; if qualified as court reporter, records legal proceedings by dictation for later transcription.

Recommendation

In the vocational certificate category, 3 semester hours in legal terminology; *if qualified as a court reporter*, 8 additional semester hours in machine shorthand, 6 in typewriting, 3 in machine transcription, 3 in introduction to court reporting, and 3 in business communications, for a total of 26 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in principles of supervision, 3 in principles of financial budgeting, 3 in legal terminology, 3 in law office management, 3 in trial preparation and procedures, 3 in legal research, 3 in paralegalism (duties and responsibilities of the legal assistant, code of ethics, principles of conduct, relationship to the attorney, etc.), for a minimum total of 21 semester hours; *if qualified as a court reporter*, 8 additional semester hours in machine shorthand, 6 in typewriting, 3 in machine transcription, 3 in introduction to court reporting, and 3 in business communications, for a total of 44 semester hours. In the upper-division baccalaureate category, 3 semester hours in personnel management, 3 in management electives, and 3 in legal environment and processes, for a total of 9 semester hours; *if rank was CW2*, 2 additional semester hours for field experience in management, for a total of 11 semester hours; *if rank was CW3*, 4 additional semester hours for field experience in management, for a total of 13 semester hours; *if rank was CW4*, 6 additional semester hours for field experience in management, for a total of 15 semester hours (10/77).

MOS–741A–001

DATA PROCESSING TECHNICIAN

741A0

Exhibit Dates: Pending evaluation.

MOS–761A–001

GENERAL SUPPLY TECHNICIAN
(UNIT SUPPLY TECHNICIAN)

761A0

Exhibit Dates: 1/71–Present.

Career Pattern

May have progressed to General Supply Technician or Unit Supply Technician from any enlisted supply MOS (currently Career Management Field 76, Supply).

Description

Administers and manages the Army supply system; maintains inventory control; supervises purchasing procedures, inventory handling and storage, recordkeeping, and stock control; is responsible for accounting and management of capital stock for units and installations; knows manual and automated property-accounting procedures; develops and administers supply budgets for units or installations; forecasts and plans supply requirements; knows how to use automatic data processing in the supply area; gives technical advice to subordinate unit and activity commanders; establishes procedures for requisitioning, receiving, storing, and issu-

ing supplies; establishes and maintains formal and informal lines of communication with supply control, maintenance, and transportation units; with supported activities, may monitor or evaluate supply contractor's performance; prepares reports and correspondence.

Recommendation

In the vocational certificate category, 2 semester hours in keypunch, 3 in record keeping, 3 in technical report writing, 3 in inventory management, 3 in warehousing and storage, 3 in introduction to computer concepts, 3 in purchasing, 3 in material handling and safety, and 3 in principles of financial budgeting, for a total of 26 semester hours. In the lower-division baccalaureate/associate degree category, 3 semester hours in technical report writing, 3 in personnel supervision, 3 in inventory management, 3 in introduction to computer concepts, 3 in warehousing and storage, 3 in record keeping, 3 in purchasing, 3 in material handling, 3 in principles of financial budgeting, and 2 in keypunch, for a total of 29 semester hours. In the upper-division baccalaureate category, 3 semester hours in management electives and 3 in personnel management and training; *if rank was CW2*, 2 additional semester hours for field experience in management, for a total of 8 semester hours; *if rank was CW3*, 4 additional semester hours for field experience in management, for a total of 10 semester hours; *if rank was CW4*, 6 additional semester hours for field experience in management, for a total of 12 semester hours. (10/77).

MOS–762A–001

SUPPORT SUPPLY TECHNICIAN

762A0

Exhibit Dates: 12/71–Present.

Career Pattern

May have progressed to Support Supply Technician from MOS 761A (General Supply Technician or Unit Supply Technician) or from MOS 76D (Materiel Supplyman), MOS 76J (Medical Supplyman), MOS 76P (Stock Control Supplyman), MOS 76S (Vehicle Materiel Supply Specialist), MOS 76V (Storage Supplyman), MOS 76W (Petroleum Supply Specialist), MOS 76X (Subsistence Supplyman), MOS 76Y (Unit/Organization Supplyman), or MOS 76Z (Senior Supply Sergeant).

Description

Administers and manages the Army supply system as it applies to maintenance support units, usually at overseas locations; supervises the requisitioning, storage, distribution, and accounting of repair parts and maintenance-related supply items; knows manual and automated property accounting procedures; knows fundamentals of data processing as they apply to inventory management; knows the interrelationship of supply, maintenance, and transportation; knows policies and procedures for and interprets regulations regarding crating, packaging, preserving, shipping, and storing materiel and equipment; uses supply catalogs, technical manuals, bulletins, modification work orders, and cross-reference lists in requisitioning, receiving, storing, issuing, and identifying equipment, supplies, and repair parts; forecasts the requirements of repair parts and maintenance-related supply items; develops and administers supply budgets; inspects supported units to insure that stock levels are adequate and within prescribed limits; makes inventory recommendations; provides technical guidance to supported unit personnel; develops operating procedures and performs administrative duties related to the supply activity; evaluates efficiency and effectiveness of supply operations; prepares correspondence and reports.

Recommendation

In the vocational certificate category, 2 semester hours in keypunch, 3 in record keeping, 3 in technical report writing, 3 in inventory management, 3 in warehousing and storage, 3 in introduction to computer concepts, 3 in purchasing, 3 in material handling and safety, and 3 in principles of financial budgeting, for a total of 26 semester hours. In the lower-division baccalaureate/associate degree category, 2 semester hours in keypunch, 3 in record keeping, 3 in technical report writing, 3 in inventory management, 3 in warehousing and storage, 3 in introduction to computer concepts, 3 in purchasing, 3 in material handling and safety, 3 in principles of financial budgeting, and 3 in personnel supervision, and additional credit in traffic management on the basis of institutional evaluation, for a minimum total of 29 semester hours. In the upper-division baccalaureate category, 3 semester hours in management electives and 3 in personnel management and training, and additional credit in transportation and physical distribution on the basis of institutional evaluation; *if rank was CW2*, 2 additional semester hours for field experience in management, for a minimum total of 8 semester hours; *if rank was CW3*, 4 additional semester hours for field experience in management, for a minimum total of 10 semester hours; *if rank was CW4*, 6 additional semester hours for field experience in management, for a minimum total of 12 semester hours (10/77).

MOS–811A–001

PHOTOMAPPING TECHNICIAN

811A0

Exhibit Dates: Pending evaluation.

MOS–821A–001

SURVEY TECHNICIAN

821A0

Exhibit Dates: Pending evaluation.

MOS–833A–001

REPRODUCTION TECHNICIAN

833A0

Exhibit Dates: Pending evaluation.

MOS–911A–001

MILITARY PHYSICIAN'S ASSISTANT

911A0

See the exhibit, MOS–011A–001.

MOS–941A–001

FOOD SERVICE ADVISOR

941A0

Exhibit Dates: Pending evaluation.

MOS–951A–001

CRIMINAL INVESTIGATOR

951A0

Exhibit Dates: Pending evaluation.

MOS–961A–001

ATTACHE TECHNICIAN

961A0 (formerly 2122)

Exhibit Dates: Pending evaluation.

MOS–962A–001

IMAGE INTERPRETATION TECHNICIAN

962A0

Exhibit Dates: Pending evaluation.

MOS–963A–001

INTERROGATION TECHNICIAN

963A0

Exhibit Dates: Pending evaluation.

MOS–964A–001

ORDER OF BATTLE TECHNICIAN

964A0

Exhibit Dates: Pending evaluation.

MOS–971A–001

COUNTERINTELLIGENCE TECHNICIAN
(INTELLIGENCE TECHNICIAN)

971A0

Exhibit Dates: Pending evaluation.

MOS–972A–001

AREA INTELLIGENCE TECHNICIAN

972A0

Exhibit Dates: Pending evaluation.

MOS–982A–001

TRAFFIC ANALYSIS TECHNICIAN

982A0

Exhibit Dates: Pending evaluation.

MOS–983A–001

EMANATIONS ANALYSIS TECHNICIAN

983A0

Exhibit Dates: Pending evaluation.

MOS–984A–001

MORSE INTERCEPT TECHNICIAN

984A0 (formerly 051A0)

Exhibit Dates: Pending evaluation.

MOS–985A–001

NON-MORSE INTERCEPT TECHNICIAN

985A0 (formerly 052A0)

Exhibit Dates: Pending evaluation.

MOS–986A–001

EMITTER LOCATION/IDENTIFICATION TECHNICIAN
(SPECIAL IDENTIFICATION TECHNICIAN)

986A0 (formerly 053A0)

Exhibit Dates: Pending evaluation.

MOS–988A–001

VOICE INTERCEPT TECHNICIAN

988A0

Exhibit Dates: Pending evaluation.

Appendix A

How ACE Evaluates MOS's

The MOS evaluation system has three major components: the selection of evaluators; the materials required for evaluation; and the procedures and guidelines evaluators use in reaching decisions and making recommendations.

SELECTION OF EVALUATORS

Nominations for evaluators are requested from postsecondary institutions; professional associations; disciplinary societies; labor unions; trade associations; industry associations; educational associations; regional accrediting associations; state departments of education; state credentialing, licensing, and certifying agencies; and the Bureau of Apprenticeship and Training of the U.S. Department of Labor.

The criteria for selection of MOS evaluators are as follows:

1. The area of an evaluator's competency, as evidenced by formal occupational training, knowledge, and experience, will closely approximate the skills, competencies, and knowledge required for proficiency in the MOS.
2. Preference will be given to candidates who are experienced in administration of apprentice training programs when an enlisted MOS is related to an apprenticeable trade.
3. Preference will be given to candidates who are subject-matter specialists with five or more years of postsecondary teaching or administrative experience, including curriculum development.
4. Preference will be given to candidates who are generally receptive to the recognition of learning that occurs in a variety of settings.

An evaluator candidate is interviewed by an OEC staff member to determine whether the individual meets the selection criteria.

Evaluations are conducted by teams of at least three specialists (five when the enlisted MOS is apprenticeship related). The teams are formed by OEC staff members, using the following guidelines:

1. In the evaluation of an enlisted MOS that is related to an apprenticeable trade, two evaluators on the team – one representing labor and one representing management – should have experience in the administration of that apprentice training program.
2. Subject-matter specialist on an evaluation team should represent a variety of postsecondary institutional types: 1-year/2-year/4-year; public/private; vocational/technical.
3. Each team of evaluators should represent a variety of persons from within education, labor, government, industry, and business who have had teaching, supervisory, and administrative experiences.

An effort is also made to attain a diverse geographic representation among evaluators. Teams are formed based on the groups of MOS's to be evaluated. Because MOS skills do not always fall neatly into civilian educational and occupational fields and often encompass two or more fields, most MOS evaluation teams include a curriculum generalist. Provision is also made for an evaluation team, when it finds it cannot thoroughly evaluate an MOS, to refer the MOS or a particular skill level to another team or other specialists for further evaluation.

MATERIALS REQUIRED FOR EVALUATION

In order to make a recommendation, evaluators must first identify the skills, competencies, and knowledge associated with a given warrant officer or enlisted MOS. The materials relevant to the evaluation of each warrant office MOS or enlisted MOS skill level are made available to OEC staff members and evaluators by the Army. Materials include the official Army MOS manual which describes the duties and qualifications for each MOS; technical manuals, field manuals, and other publications used by enlisted soldiers and warrant officers in the day-to-day performance of their duties and by enlisted soldiers to prepare for their MOS evaluation tests; enlisted MOS skill-level evaluation tests; study

guides that outline the proficiency requirements for each enlisted MOS skill level. Additional information is obtained by observing and interviewing enlisted soldiers and warrant officers on-the-job during site visits to Army installations.

EVALUATION PROCEDURES AND GUIDELINES

Evaluators identify the skills, competencies, and knowledge required of warrant officers who are qualified in a given MOS and enlisted soldiers who are qualified in a given MOS skill level and relate that demonstrated learning to the same attributes acquired by students who have completed a comparable postsecondary course or curriculum. In addition, the skills, competencies, and knowledge required of enlisted soldiers who are qualified in a given MOS skill level are compared to those same attributes acquired by tradesmen or apprentices who have completed a related apprentice training program. Because the evaluations are based on a comparison of learning outcomes, the amount of time a given enlisted soldier or warrant officer may have spent acquiring MOS proficiency is not taken into consideration. The emphasis is on translating the learning demonstrated through MOS proficiency into terms used in formal civilian education systems to recognize the same learning. This reflects the Commission's belief that the value of learning is not dependent on where or how the learning occurs.

Evaluation teams are assigned four tasks in the evaluation of each MOS: (1) to identify the learning represented by proficiency in the MOS by reviewing the pertinent written materials and by observing warrant officers or soldiers performing in the MOS and interviewing them and their supervisors; (2) to prepare a description of the duties, skills, competencies, and knowledge required for each warrant officer or enlisted MOS skill level; (3) to make recommendations for each warrant officer MOS or enlisted MOS skill level based on discussion and consensus; and (4) to make specific comments and suggestions about MOS's (especially in those instances when neither educational credit nor advanced standing in an apprentice training program is recommended), which are forwarded by OEC to the Army for consideration.

SUMMARY

Throughout the evaluation process, evaluators are encouraged to exercise professional judgment in applying the evaluative criteria and procedures. This position reflects the Commission's belief that sound educational evaluation is more dependent on professional judgment and expertise than on rigid application of criteria.

The Commission on Educational Credit continually reviews its criteria and procedures. Evaluators are encouraged to provide feedback and recommendations for consideration by the Commission.

Appendix B

Enlisted Special Qualifications Identifiers

A Special Qualifications Identifier (SQI) is a letter used to indicate special qualifications possessed by an individual. The SQI, when it is used, occupies the fifth character position of the enlisted MOS designation, replacing the zero that normally occupies the position. For example, 12B40 is a skill-level designation for a combat engineer (MOS 12B); 12B4P is the designation for a person who holds 12B40 and is also qualified as a parachutist (SQI P).

Special Qualifications Identifiers are listed alphabetically in this appendix. Each SQI code is accompanied by a title and a brief description.

A Technical Intelligence
Identifies persons holding intelligence analyst positions who are able to identify and evaluate foreign materiel, systems, and technological developments.

B Unit Race Relations Discussion Leader (Unit Interpersonal Relations Worker)
Identifies persons who have completed the Unit Race Relations Discussion Leaders Course or who have completed equivalent command-sponsored training.

C CBR (Chemical, Biological, and Radiological Warfare Operations)
Identifies persons who have knowledge of CBR warfare operations and training techniques and who have completed appropriate training in CBR warfare operations and applicable training techniques.

D Civil Affairs Operations
Identifies persons qualified to assist in planning, directing, and coordinating activities that pertain to the civil population and its political, social, and economic institutions.

E Northern Warfare Expert
Identifies persons who have completed prescribed training at the Northern Warfare Training Center or who have received comparable training with a unit operating in an extreme northern environment to qualify them in military skiing, mountaineering, arctic river navigation, and movement and operating on glaciers.

F Flying Status
Identifies persons who are required to perform frequent and repetitive aerial flights.

G Ranger
Identifies persons who are Ranger-qualified and who have completed appropriate training at the Infantry School.

H Instructor
Identifies persons who are qualified to be full-time instructors or training advisers at an Army service school or in other organized training activity.

I Installer
Identifies persons who are qualified to install nonportable equipment systems or subsystems on a full-time duty basis.

J SCUBA
Identifies persons who are trained in skills and safety measures used in diving with self-contained underwater breathing apparatus (SCUBA) and who apply these skills in underwater reconnaissance, maintenance, vehicle recovery, and demolition.

K Logistics Noncommissioned Officer
Identifies persons who qualify as program members in the Army Logistics Systems.

L Linguist
Identifies persons who have achieved elementary proficiency in either listening comprehension or reading comprehension in one or more foreign languages.

M First Sergeant
Identifies persons who are qualified to assist commander in planning, supervising, inspecting, developing, and executing unit policy; to advise commander on enlisted personnel matters; to provide counsel and guidance to subordinate personnel; and to coordinate administration of the unit and support services.

N White House Communications Agency
Identifies persons assigned to the White House Communications Agency.

P Parachutist
Identifies persons who are qualified parachutists.

Q Race Relations Instructor
Identifies persons who have completed training in race relations education at the Defense Race Relations Institute.

R Research, Development, Test, and Evaluation (RDTE)
Identifies persons who are qualified in the design, development, test, or evaluation of military materiel, doctrine, methods, systems, or organization.

S Special Forces
Identifies qualified parachutists who have completed specialist training by the Special Forces Training Group of the U.S. Army John F. Kennedy Center for Military Assistance, completed similar training, or acquired equivalent qualifying experience.

T Transition
Identifies persons who have completed transition-type formal training on late-model equipment; this SQI is used in the MOS designation for up to three years following such training.

U Track Personnel/Cargo Driver
Identifies persons who are qualified to operate tracked personnel/cargo carrier vehicles.

V Ranger-Parachutist
Identifies persons who are qualified for the award of both SQI G and SQI P.

W Psychological Warfare
Identifies persons qualified in the analysis, development, or implementation of psychological warfare material.

X Drill Sergeant
Identifies persons who complete a Drill Sergeant training course conducted at an Army Training Center.

Y Pathfinder
Identifies qualified parachutists who have completed Pathfinder training at the U.S. Army Infantry School or who have acquired similar qualifications at unit schools with comparable programs of instruction and standards.

Z Alcohol and Drug Abuse Prevention and Control Program
Identifies persons who have met the following prerequisites: completion of U.S. Army Drug and Alcohol Rehabilitation Training or military or civilian experience in counseling or similar activities in the alcohol, drug abuse, or related fields, and formal recommendation and certification of qualification by a program behavioral scientist (psychiatrist, psychologist, or social worker).

Appendix C

Enlisted Additional Skill Identifiers

An Additional Skill Identifier (ASI) is a two-character code that is used to identify highly specialized skills that are in addition to the skills required for proficiency in a given enlisted MOS. The ASI is identified by a letter and a number, the sixth and seventh characters in the MOS designation. The skills content of each ASI requires a minimum of 10 days of formal training or equivalent on-the-job training.

Additional Skill Identifiers are listed alphanumerically in this appendix. Each ASI code is accompanied by a title and a brief description.

A1 DSCS SATCOM Controller
Performance of operational satellite communications controller functions.

A2 Aviation Safety
Planning and implementing aviation accident prevention measures.

A3 The Army Authorization Document System (TAADS)
Qualification to use The Army Authorization Document System (TAADS).

A5 AN/MRC–85
Maintenance of radio set AN/MRC–85.

A6 AN/MRC–98
Maintenance of radio set AN/MRC–98.

A7 TASS–AN/TTC–25, AN/TTC–38
Maintenance of automatic central office equipment TASS–AN/TTC–25 and AN/TTC–38.

A8 Meatcutting
Trimming, cutting, boning, and grinding of meat.

A9 Patrol Dog Handling
Use and handling of patrol dogs in detecting and detaining suspected law violators.

B1 Artillery Calibration
Calibration of field artillery weapons.

B2 Telephone Key System Installer
Installation and organizational maintenance of key telephone systems.

B3 Specialized Teletypewriter Equipment
Installation and maintenance of specialized teletypewriter equipment.

B4 Air Traffic Control/NAVAIDS Equipment Repair
Maintenance of ATC navigation aids communications equipment.

B6 AN/TSC–38
Maintenance of communications central radio set AN/TSC–38.

B7 Ejection Seat Repairer
Maintenance of MK–J5 ejection seat, 9E2A ejection training device, and survival kits for OV–1 aircraft.

B8 Forensic Crime Lab Specialist
Qualification as a crime laboratory specialist.

C1 Executive Club Manager
Management of a club with gross monthly sales in excess of $50,000.

C2 Dragon
Employment of the XM 47 Medium Antitank Assault Weapon System.

C3 Control Data Corporation 6000 Series
Operation of Control Data computer in the 6000 series.

C4 Technical Evaluation Program (TEP)
Technical and operational checks on major communications systems within the Army.

C5 M551 Master Gunner
Assessment of training and weapons, development of training programs, and conduct of training for M551.

C6 M60A1/A3 Master Gunner
Assessment of training and weapons, development of training programs, and conduct of training for M60A1/A3.

C7 M60A2 Master Gunner
Assessment of training and weapons, development of training programs, and conduct of training for M60A2.

C8 Transcriber/Gister
Transcription and summarization of intercepted foreign language transmissions.

C9 Stereocompiler
Compilation and revision of planimetric and topographic maps using stereoscopic plotting instruments.

D1 Bread Baking
Ability to bake bread.

D2 RCA 301–501
Operation of RCA computers 301 and 501.

D3 RCA 3301-Spectra 70
Operation of RCA computers 3301 and Spectra 70.

D4 IBM 7000 Series
Operation of IBM computer in the 7000 series.

D5 FORTRAN 2nd Generation
Use of Formula Translation (FORTRAN) 2nd generation machine language in the development of computer programs.

D6 COBOL 2nd Generation
Use of Common Business Oriented Language (COBOL) 2nd generation machine language in the development of computer programs.

D8 SAAL
Use of SAAL machine language (Single Address Assembly Language) in the development of computer programs.

D9 Enlisted Frequency Manager
Coordination, allocation, and assignment of radio frequencies.

E1 Propeller Assembly Maintenance
Maintenance of fixed-wing aircraft propellers, including hydraulic, electrical, and mechanical propeller systems.

E2 Shoe Repair
Inspection and repair of leather footwear, application of authorized prescribed orthopedic devices, and operation of shoe repair equipment.

E4 Attaché Specialist
Performance of general administrative duties in support of Defense Army Attaché office located in an embassy of the United States of America.

E5 Terrain Analyst
Compilation and dissemination of terrain information to provide data for use in construction, mapping, and other operations.

E6 Supply Data Analysis
Analysis of forms, regulatory requirements, source data needs, and workflow pertaining to the supply reporting system.

E7 COMSEC Equipment Maintenance
Prior experience in communications security equipment maintenance through either MOS 32F (Fixed Ciphony Repair) or MOS 32G (Fixed Cryptographic Equipment Repair).

E8 WWMCCS
ADP programming and analysis for the Worldwide Military Command and Control System (WWMCCS).

E9 Document Storage and Retrieval Equipment
Operation of complex document storage and retrieval equipment related to intelligence data handling systems.

F1 Special Forces Operations
Provision of Special Forces intelligence and operations, preparation and

supervision of intelligence training programs, and application of counterintelligence principles to environmental situations.

F2 Intelligence Photography
Use of standard and special camera equipment in intelligence photography.

F3 Standard Army Intermediate Level Supply Subsystem (SAILS)
Completion of formal training in the Standard Army Intermediate Level Supply (SAILS) Subsystem.

F4 Automated Property Book and Equipment Status Reporting
Knowledge of policies, terms, management procedures, and functional operations of automated property book and equipment status reporting system at the division supply level.

F5 Postal Operations
Handling of U.S. mail, money orders, and international mail.

F6 AN/FSG-21, Electronic Mixer, HLC-1A/TSEC
Maintenance on AN/FSG-21, Electronic Mixer, HLC-1A/TSEC.

F8 Flight Simulator (UH1FS) Console Operator
Operation of the UH1FS flight simulator console and related functions to provide aviators practice in instrument flight techniques.

F9 Automated Supply Record Keeping and Supply Management
Use of the appropriate computer system to maintain and update supply accounts.

G1 UNIVAC 1004/1005/DCT-9000
Maintenance and operation of the card processor U-1005 and U-1004/DLT-6.

G3 NCR 500
Operation of the NCR 500 computer.

G5 IBM 360
Operation of the IBM 360 computer.

G7 Command and Control System
Operation of command and control systems equipment.

G8 DAME
Provision of advice concerning Defense Against Methods of Entry (DAME), including locking devices, lock security intrusion, detection devices, and building vault construction.

G9 DASE
Provision of advice concerning Defense Against Sound Equipment (DASE), including specialized electronic equipment and techniques used in detection and location of clandestine listening devices.

H2 Non-Morse Code Communications Analysis
Use of specialized analysis techniques pertaining to intercepted non-Morse code communications.

H3 Physical Security
Planning and implementing physical security measures to control pilferage, espionage, sabotage, and other physical security hazards; to prevent unauthorized entry; and to control entry, exit, and circulation of foot and vehicular traffic.

H4 Data Communications
Monitoring, testing, and analysis of the quality operational circuits between Automatic Digital Message Switching Center (ADMSC) and other switching centers; installation, operation, and maintenance of overseas Automatic Digital Network (AUTODIN) ADMSC; use of data communications machine language in development of computer programs for AUTODIN.

H6 Tempest
Use of data collection procedures and techniques and on-site analysis to assure cryptologic security.

H7 Counseling Specialist
Provision of assistance to chaplains in counseling duties.

H8 Music and Drama Specialist
Direction of formal musical and dramatic religious productions.

H9 SA 431 Telemetry Analog Production
Use of procedures and techniques of analysis of specific telemetry data.

J1 Telemetry Identification and Collection
Use of procedures and techniques of collection and identification of specific telemetry data.

J3 Advanced Non-Morse Operations (formerly SC 260, A232-016)
Operation of the SC 260 computer.

J4 Special Signal Analysis
Analysis of special-type intercepted signal data.

J5 Technical Escort
Provision of safe and secure escort of shipments of chemical, biological, or etiological material and radioactive waste.

J6 Tandem Switch
Maintenance of tandem switching and associated equipment.

J7 High Speed (International Morse Code) Transmission and Receiving
Receiving International Morse Code by radio at the rate of 22 five-letter random code groups per minute without error for a period of 3 consecutive minutes out of 5 and transmitting at the rate of 18 five-letter random code groups per minute without error for a minimum period of 2 consecutive minutes out of 3.

J8 Photojournalist
Completion of the United States Air Force photojournalist Course at Lowery Air Force Base, Colorado, or completion of a one-year photojournalist program at Syracuse University, or the equivalent.

K3 Electronic Countermeasures Operations
Operation of electronic countermeasures equipment and devices.

K4 Mobile Floating Assault Bridge/Ferry (MAB)
Maintenance on the mobile floating assault bridge ferry.

K7 Finance Data Analysis
Use of forms, transaction entries, verification procedures, and standardized codes for information processed in the Army's finance and accounting system.

K8 AN/FTC-31/SEVAC
Support of the automatic dial central office (AN/FTC-31) and the secure voice access console (SEVAC).

K9 UHF and VHF Operator
Operation of specialized very high frequency and ultra high frequency intercept equipment.

L2 OV-1D (Mohawk) Infrared Surveillance Repairman
Maintenance of the AN/ASS-24 infrared detecting set.

L3 AN/APS-94 (D) SLAROVID AN/AYA-10 Data Annotation System
Maintenance of the data annotator system of the airborne side-looking acquisition radar (SLAR) used on the OV-1D aircraft.

L4 Ammunition Stock Control and Accounting
Preparation and maintenance of records associated with receipt, storage, and issue of ammunition.

L5 Automatic Message Address and Routing Systems (AMARS)
Maintenance of the automatic multiple address routing system and tape recall unit in a data communications system.

L7 SATCOM Communications Link Terminal AN/TSC-54
Maintenance of satellite communications link terminal AN/TSC-54.

L8 AN/AAS-24 and AN/APS-94 (OV-1D) Operation
Maintenance of AN/AAS-24 and AN/APS-94 radar equipment.

L9 Controlled Nuclear Surety
Qualification to hold controlled nuclear surety positions.

M1 Ship's Electrician
Maintenance of electrical equipment and systems on Army seagoing vessels and in marine repair shops.

M2 Mode V Digital Subscriber Terminal Equipment
Maintenance of Mode V (teletypewriter) and associated security equipment at a subscriber terminal of a data communications system.

M3 Dialysis Technician
Operation of dialysis equipment in treatment of patients with kidney disorders.

M4 Blood Grouping, Collecting, and Processing
Grouping, collecting, and processing whole blood on a volume basis.

M5 Nuclear Operations (8" Howitzer)
Assembly, disassembly, and prefire procedures for the 8-inch nuclear projectile.

M6 Nuclear Operations (155mm Howitzer)
Assembly, disassembly, and prefire procedures for the 155mm Howitzer.

M7 Nuclear Operations (Sergeant)
Assembly, disassembly, and prefire procedures for nuclear warhead in Sergeant weapon system.

M8 Nuclear Operations (Lance)
Assembly, disassembly, and prefire procedures for nuclear warhead in Lance weapon system.

M9 Emitter Location and Identification Techniques
Use of specialized identification techniques and communications electronics equipment to locate and identify signal emitters.

N1 Nuclear Operations (Pershing)
Assembly, disassembly, and prefire procedures for nuclear warhead in Pershing weapon system.

N2 Forward Area Alerting Radar (FAAR)
Maintenance of the Forward Area Alerting Radar.

N3 Circuit Conditioning
Testing, measurement, and adjustment of lines and circuits to insure high fidelity of communications within the Defense Communications System.

N4 Emergency Action Console
Maintenance and operation of the emergency action console.

N7 IBM 1401, 1410, 1440, 1460, and 1620
Operation of IBM computers 1401, 1410, 1440, 1460, and 1620.

N9 FORTRAN 3rd Generation
Use of Formula Translation (FORTRAN) 3rd generation machine language in development of computer programs.

P1 COBOL 3rd Generation
Use of Common Business Oriented Language (COBOL) 3rd generation machine language in development of computer programs.

P2 Assembly Language 2nd Generation
Use of Assembly Language 2nd generation machine language in the development of computer programs.

P3 Assembly Language 3rd Generation
Use of Assembly Language 3rd generation machine language in the development of computer programs.

P4 Heavy Anti-Tank/Assault Weapons System (TOW)
Use of tube-launched optically-tracked wire-guided (TOW) missiles against enemy armored vehicles.

P5 Sentry Dog Handling
Use and handling of sentry dogs as a means of security.

P6 Scout Dog Handling (On/Off Leash)
Use and handling of scout dogs trained in on-leash and off-leash obedience and capable of giving early warning of enemy presence or traps.

P7 Contraband Detector Dog Handling
Training and handling dogs capable of detecting presence of marijuana and its derivatives by scent alone.

P8 Critical Nuclear Surety
Qualification to hold critical nuclear surety positions.

P9 Mine/Tunnel Dog Handling
Use and handling of dogs capable of finding mines or traps and ordnance cached in tunnels.

Q1 Welder
Welding of aircraft structure and components using oxyacetylene, electric arc, and inert gas welding equipment.

Q2 Combat Tracker Dog Handling
Use and handling of dogs used in combat tracker teams and capable of basic and advanced tracking.

Q3 Tank Turret Maintenance Supervision
Supervision of maintenance of tank turrets.

Q4 MINCOM TICOR Recorder
Maintenance of specialized recording equipment (wideband).

Q5 Chapel Activities Specialist—Catholic (formerly Chaplain's Assistant)
Knowledge of Catholic religious beliefs and rituals.

Q6 Chapel Activities Specialist—Protestant (formerly Chaplain's Assistant)
Knowledge of Protestant religious beliefs and rituals.

Q7 Chapel Activities Specialist—Jewish (formerly Chaplain's Assistant)
Knowledge of Jewish religious beliefs and rituals.

Q8 Nuclear Operations (HJ)
Assembly, disassembly, and prefire procedures for nuclear warhead in Honest John weapon system.

Q9 Traffic Accident Investigator
Reconstruction of traffic accidents from evidence to determine reasons for occurrence, possibility of avoidance, and determination of fault.

R2 Nuclear Operations (Hercules)
Assembly, disassembly, and prefire procedures for nuclear warhead in Hercules weapons system.

R3 Nuclear Security
Physical security and emergency destruction of nuclear weapons during movement in storage and in tactical operations.

R5 AN/ASN-86 Inertial Navigation Set
Maintenance of the AN/ASN-86 inertial navigation equipment used on Mohawk aircraft.

R6 Redeye Operations
Use of Redeye missile system to engage enemy aircraft.

R8 M551 Sheridan
Operation of M551 Sheridan combat vehicle.

R9 STRAWHAT/DSSCS
Maintenance of specialized equipment used in the STRAWHAT/defense special secure communications system (DSSCS).

S1 Special Purpose Receiving Equipment
Maintenance of special purpose receiving equipment.

S6 Digital Converting Programming Group AN/TC A-4
Maintenance of specialized demultiplex equipment assemblages.

S7 Scope Safe System
Maintenance of specialized equipment in a secure communications system.

S8 M16 Ballistics Computer
Maintenance of M16 ballistics computer.

S9 Defense Sensor Interpretation Training Program
Microscale interpretation, electronic data reporting, storage, retrieval, and dissemination of imagery-derived intelligence information.

T1 Overseas AUTOVON Switch
Maintenance on switching equipment in the overseas automatic voice network (AUTOVON).

T2 Sniper
Highly accurate sharpshooting, usually at long range.

T3 GE 600/Honeywell 6000
Operation of the General Electric 600 and Honeywell 6000 computers.

T5 Burroughs B-3500
Operation of data processing computer B-3500 (Burroughs Corporation).

T6 Electroencephalograph Operator (EEG)
Operation of EEG equipment.

T9 Cryptanalysis
Analysis of encrypted communications to determine system of encryption and to effect eventual solution.

U1 Radio Teletype Analysis
Analysis of intercepted radio teletype signals.

U2 Cytotechnology
Staining, mounting, and microscopic examination of cells to detect evidence of cancer and other pathological conditions which must be referred to a pathologist for final interpretation.

U4 Property Disposal Operations
Property administration or materials segregation and classification.

U5 Commissary Operations
Commissary operations such as sales, stock replenishment, and produce, grocery department, or general administration.

U6 FA Weapons Mechanic
Maintenance of field artillery (FA) weapons.

U7 Film Library Operations
Cataloging, receiving, and administering audio-visual equipment and material.

V1 AMOSIST
Use of the Automated Military Outpatient System (AMOSIST) for Triage of patients to acute minor illness clinic, emergency treatment room, or appropriate specialty clinic.

V3 Unattended Ground Sensor Systems Maintenance
Maintenance of unattended ground sensor systems.

V5 Military Police Investigation
Investigation of criminal offenses for which the maximum punishment is confinement at hard labor for less than one year and offenses involving larcenies of property valued at less than $250 and involving another major crime.

V6 Spectrometric Oil Analysis
Analysis of used oil for wear metal content, using the fluid analysis spectrometer A/E 35U-3 and appropriate analytic and evaluation techniques.

V7 Honeywell H200
Operation of the Honeywell H200 computer.

V8 UNIVAC 1106/1108
Operation of the UNIVAC 1106/1108 computer.

V9 Control Data CDC 3300
Operation of the Control Data Corporation CDC 3300 computer.

W1 M60A2 Tank
Operation of the M60A2 tank.

W3 Video Technical Control Facility (AN/TSQ–85) Repairman
Maintenance of the AN/TSQ–85 video technical control facility.

W4 AN/TLR–9 Intercept Equipment
Maintenance of the AN/TLR–9 intercept equipment.

W5 Personnel Data Analysis (formerly SIDPERS Data Analysis)
See W6.

W6 Personnel (Including SIDPERS) (formerly W5)
Use of forms, transaction entries, verification procedures, and standardized codes for information processed through the personnel reporting system, including the Standard Installation/Division Personnel System (SIDPERS).

W7 Special Forces Underwater Operations
Participation in Special Forces underwater operations.

W8 Special Forces Military Free Fall
Participation in Special Forces military operations requiring free-fall parachuting.

W9 Special Forces Military Free Fall and Underwater Operations
Participation in both Special Forces free-fall parachuting and underwater operations.

X1 Subsistence Procurement Quality Assurance Inspector
Assurance of the quality of procurement.

Y3 Safeguard
Completion of three-week Safeguard Missile Defense System Orientation course, Fort Bliss, Texas.

Y4 Advanced Morse Identification—Signal Search and Development (Morse) (formerly Morse Search and Development)
Specialized search and development of target for intercept.

Y6 Cardiac Catheterization Specialist
Assistance during specialized invasive cardiac test and examination.

Y7 Sterile Pharmacy Techniques
Sterile pharmacy practices leading to the preparation of items such as intravenous additives used to combat infection, restore and maintain electrolyte balance, and meet nutritional requirements.

Y9 Streamliner Maintenance Specialist
Maintenance of specialized equipment used in the Streamliner communications system.

Z1 Reciprocating Engine Repairman
Maintenance of aircraft reciprocating engines.

Z2 Blacksmith
Working, forming, and shaping heated metal, using forge, anvil, and hammer.

Z3 Pipeline Weld Radiographic Inspection Set
Operation of radiographic inspection set for pipeline welds.

Z4 Inspector General NCO
Completion of orientation course and performance of inspector general duties.

Z5 Modular Engine Test Stand (METS)
Maintenance on the Modular Engine Test Stand (METS).

Z6 Explosive Detector Dog Handler
Use and handling of dogs capable of detecting explosives.

Z8 Depot-Level Maintenance
Depot-Level maintenance (disassembly, major repairs and modifications, and inspection) of aircraft.

Z9 SB–3082 Electronic Cordless Semi-Automatic Switchboard and AN/TTC–38 Ancillary Equipment
Installation and maintenance of the SB–3082 switchboard and maintenance of AN/TTC–38 ancillary equipment such as telephones and converters.

Appendix D

Enlisted Career Management Fields

A career management field (CMF) is a grouping of related Army enlisted MOS's that is provided for use in the career development and counseling of enlisted personnel. Each career management field is structured to allow maximum upward mobility and follows a logical progression of related MOS's, ranging from trainee positions to leadership and supervisory positions.

The CMF is represented by a two-digit number and a title. When a CMF has a subfield, a third number is added to identify it. For example, CMF 52 (Power Production) has two subfields: Subfield 521 (Electric and Power Production) and subfield 522 (Nuclear Power Production). Each subfield includes only closely related MOS's.

This appendix provides summaries which outline the duties and qualifications of the CMF's and list the subfields they contain.

00 Exceptional Management Specialties
A grouping of MOS's that are unrelated and must be considered individually. These MOS's are categorized as either special assignments (subfield 000) or those requiring professional skills (subfield 001). Qualifications vary considerably according to MOS.

11 Maneuver Combat Arms
A grouping of MOS's that covers positions primarily in infantry units and armor units. Subfields include: General (110); Infantry (111); Armor (112). Infantry duties involve use of individual and crew-served weapons and armored vehicles and work in closely coordinated teams. Armor duties involve use of crew-served armor weapons and armored vehicles and work in closely integrated teams. Qualifications include knowledge of fundamental tactics, principles of fire and movement, use of individual light weapons, principles of field sanitation, protection from chemical contamination, map and aerial photo reading, use of compass, first aid, and preparation of rough maps and field sketches.

12 Combat Engineering
A grouping of MOS's that covers positions in engineer combat units. Duties involve construction tasks (roads, temporary shelters, bridges, rafts), laying and clearing of minefields, and conventional and atomic demolitions. Qualifications include ability to use power and hand tools, knowledge of rough carpentry and rigging, ability to identify and handle demolition ammunition, skill in operating small watercraft, and ability to fight in infantry units.

13 Field Artillery (formerly Field Artillery Cannon)
A grouping of MOS's that covers positions in field artillery cannon, missile, and target acquisition units. Subfields include: Field Artillery General (130); Field Artillery Cannon/Missile Operations (131); Field Artillery Target Acquisition Operations (132). Duties involve operations, fire direction, and maintenance of field artillery guns and related weapons and working in closely controlled teams. (Prior to 9/76, CMF 13 was limited to MOS's that covered positions in field artillery cannon units only.)

15 Field Artillery Missiles
A grouping of MOS's that covers positions primarily in field artillery missile units. Duties involve emplacement, testing, and operation of field artillery missile systems. Qualifications include knowledge of the functioning, assembly, and testing of a wide variety of complex weapons systems. Effective 9/76, CMF 15 was eliminated and the MOS's were reclassified under CMF 13 (Field Artillery).

16 Air Defense Artillery (ADA)
A grouping of MOS's that covers positions primarily in air defense units. Subfields include: ADA General (160); ADA Missile and Gun Operations (161); ADA Operations and Intelligence (162). Duties involve emplacement, assembly, testing, and operation of air defense weapons systems. Qualifications include knowledge of the functioning, assembly, and testing of highly intricate weapons systems.

17 Combat Surveillance and Target Acquisition
A grouping of MOS's that covers positions primarily in artillery units. Subfields include: General (170); Combat Surveillance (171); Target Acquisition (172). Duties involve operation of combat surveillance and target acquisition systems. Qualifications include ability to determine locations, distance, direction, and elevations from topographic maps; knowledge of artillery plotting procedures; familiarity with the function and operation of combat surveillance and target acquisition systems; and knowledge of basic mathematics. Effective 9/76, CMF 17 was eliminated; the target acquisition MOS's were reclassified under CMF 13 (Field Artillery) and the combat surveillance MOS's were reclassified under CMF 96 (Military Intelligence).

21 Ballistic Missile Repair
A grouping of MOS's that covers positions in field artillery units and in maintenance units. Subfields include: Pershing Missile Repair (211); Sergeant Missile Repair (212). Duties involve maintenance of missiles and related equipment. Qualifications include knowledge of the functioning, assembly, testing, and maintenance of complex weapons systems.

23 Air Defense Missile Maintenance
A grouping of MOS's that covers positions in air defense units and in missile maintenance units. Subfields include: Nike Missile System Repair (231); Nike Missile System Mechanics (232); Hawk Missile System Repair (233); Hawk Missile System Mechanics (234); Improved Hawk Missile System Mechanics (235); Improved Hawk Missile System Repair (236); Ballistic Missile Defense (237); Fire Distribution Sytems Repair (238). Duties involve assembly and testing of air defense weapons and maintenance of missiles, guidance equipment, fire control equipment, fire distribution systems, radar, and computers. Qualifications include knowledge of functioning, assembly, testing and maintenance of Safeguard weapons systems, electromechanical and hydraulic basis of remote antenna positioning, and knowledge of binary system.

26 Non-Integrated Radar Maintenance
A grouping of MOS's that covers positions primarily in signal corps units. Subfields include: Radar Mechanics (261); Ground Radar Repair (262); Airborne Surveillance Equipment Repair (263). Duties involve maintenance of radar equipment. Qualifications include knowledge of fundamentals of electricity/electronics, precautions required in working with high voltage equipment, and use of schematic diagrams and electrical measuring devices.

27 Combat Missile Maintenance
A grouping of MOS's that covers positions primarily in field artillery units and maintenance units. Subfields include: Combat Missile Mechanics (271); Combat Missile Repair (272). Duties involve maintenance and repair of various weapon systems. Qualifications include knowledge of the functioning, assembly, testing, maintenance, and calibrations of various complex weapons systems.

28 Aviation Communications—Electronics Systems Maintenance
A grouping of MOS's that covers positions primarily in maintenance, aviation, and signal units. Duties involve maintenance on a variety of photographic, surveillance, and avionic equipment.

31 Field and Area Communications Maintenance

A grouping of MOS's that covers positions primarily in signal corps units. Subfields include: Field Communications Maintenance (311); Tactical Electronics Maintenance (312); Area Communication (313); COMSEC Maintenance (314). Duties involve maintenance and repair of various tactical electronics equipment.

32 Fixed Plant Communications Maintenance

A grouping of MOS's that covers positions primarily in U.S. Army Communications Center (USACC) units. Duties involve operation and maintenance of fixed plant communications equipment. Qualifications include knowledge of the theory of operation and repair of fixed station electronic equipment, fundamentals of radio propogation, and precautions when working with high-voltage equipment.

33 Electronic Warfare/Intercept Systems Maintenance

Duties involve repair, maintenance, or supervision of repair of EW/Intercept systems used in both mobile and fixed sites. Qualifications include knowledge of tools commonly used by electricians and electronic workers, safety precautions required in working with electrical equipment, ability to read wire diagrams and technical manuals, and categories of equipment maintenance.

35 Electrical/Electronic Instrument Maintenance

A grouping of MOS's that covers positions primarily in maintenance, aircraft, and medical units. Subfields have included: Instrument Calibration and Maintenance (351); Electrical/Electronic Devices Maintenance (352); Avionics Maintenance (353); Medical Equipment Maintenance (354). Duties involve calibration and performance of all levels of maintenance and repair of various electrical/electronic and mechanical equipment.

36 Wire, Antenna, and Central Office Maintenance

A grouping of MOS's that covers maintenance positions primarily in signal corps units. Duties involve installation and maintenance of field wire, open wire, and cable communications systems; antenna systems; splicing communications cables; and maintenance on manual and dial telephone exchange equipment. Qualifications include knowledge of fundamentals of electricity and sound transmission, reading and understanding circuit diagrams, and techniques and maintenance involved in the installation and maintenance of wire systems.

51 General Engineering

A grouping of MOS's that covers positions primarily in engineer units. Subfields include: Construction Engineering (511); Utilities Engineering (512); Industrial Gas Production (513); Construction Equipment Operation (514). Duties involve use of construction skills (including construction surveying and drafting) for erection and maintenance of buildings, bridges, port facilities, roads, air fields, drainage structures, pipelines, storage tanks, and related facilities.

52 Power Production

A grouping of MOS's that covers positions primarily in nuclear power plants and in other engineer units. Subfields include: Electrical Power Production (521); Nuclear Power Production (522). Duties involve operation and maintenance of power-generating equipment, transmission systems, and accessory equipment; maintenance of nuclear power plant equipment; and radiological surveys.

54 Chemical

A grouping of MOS's that covers positions in chemical units, supply and service units, and in headquarters of battalion and higher level. Duties involve operation of flame equipment; decontamination of personnel, materiel, structures, and areas that have been under nuclear, biological, or chemical attack; generation of smoke for concealment and camouflage effect; staff activities relating to operations, training, and intelligence; chemical and physical testing of clothing, food, chemicals, paints, plastics, and similar materials. Qualifications include knowledge of safety precautions for work in contaminated areas and handling of chemical warfare materials, types and purpose of chemical agents, characteristics and uses of smoke, and effect of weather on chemical materials.

55 Ammunition

A grouping of MOS's that covers positions in ammunition support units Army-wide. Duties involve support, supply, inspection, renovation, disposal, and maintenance of conventional, special, and nuclear ammunition. Qualifications include knowledge of the hazards and safety measures involved in handling, storing, transporting, destroying, and neutralizing various types of ammunition, ammunition components, and nuclear weapons.

57 Field Services

A grouping of MOS's that covers positions primarily in supply and service, supply and transportation, and field service units. Subfields include: Field Service General (570); Services (571); Memorial Activities (572); Textile Renovation (573). Duties involve repair and alteration of textile, canvas, and leather supplies and equipment; laundry, bath and impregnation functions; memorial activities; supervising general work details; and general labor services. Effective 3/77, CMF 57 was eliminated and the MOS's were reclassified under CMF 76 (Supply).

63 Mechanical Maintenance

A grouping of MOS's that covers positions primarily in support maintenance units. Subfields include: Precision Devices (631); Metalworking (632); Machinery Maintenance (633); Armament Maintenance (634). Duties involve maintenance of mechanical and electromechanical equipment. Qualifications include knowledge of handtools and metalworking tools, safety precautions, blueprint reading, and technical manuals.

64 Transportation

A grouping of MOS's that covers positions primarily in transportation units. Air operations MOS's cover positions in aviation units; motor transport MOS's cover positions in units Army-wide. (Prior to 3/76, the designation for transportation MOS's was CMF 65.) Subfields have included: Movements Control (650); Terminal Service (651); Motor Transport (652); Marine (653); Railway (654); Air Operations (655). Subfields now include: Surface Operations (641); Marine Operations (642); Railway Operations (643); Air Operations (644). Duties involve operation and preventive maintenance of light, heavy cargo, and passenger vehicles; operation and maintenance of railway rolling stock and marine harborcraft; air traffic control; and movements control.

65 Transportation

Effective 3/76, CMF 65 was eliminated and the MOS's were reclassified under CMF 64.

67 Aircraft Maintenance

A grouping of MOS's that covers positions in all types of aviation units Army-wide. Subfields include: Aircraft Maintenance (671); Aircraft Components Repair (672). Duties involve servicing and maintenance of aircraft, aircraft components, armament subsystems, and target aircraft. Qualifications include ability to use handtools, instruments, and gauges; ability to understand and interpret oral and written technical instructions, plans, blueprints and schematic diagrams; and specific mechanical, electrical, and electromechanical skills.

71 Administration

A grouping of MOS's that covers positions in units Army-wide. Subfields have included: General Administration (711); Personnel (712); Finance (713); Legal (714); Information (715); Special Services (716). Duties involve general administration; personnel, legal, medical, and other specialized administration; postal service; clerical work; fiscal accounting; newspaper, radio, and television communication; and supervision of recreational activities. Qualifications include: basic clerical, typing, bookkeeping, stenography, and communication abilities and knowledge of clerical and administrative procedures, office management, preparation and use of military publications and correspondence, preparation and routing of orders, design and use of filing systems, and record keeping.

72 Telecommunications and Audio Visual

A grouping of MOS's that covers positions in radio, radio-teletype, and communications center facilities Army-wide; audiovisual MOS's cover positions in signal corps units and maintenance units. Subfields include: Communications Operations (721); Audio Visual (722). Duties involve operation of radio, teletype, telephone and data equipment; and transmission, reception, and delivery of Army communications. Effective 3/77, Subfield 722 was eliminated and the MOS's were reclassified under CMF 84 (Public Affairs and Audio Visual).

74 Automatic Data Processing

A grouping of MOS's that covers data processing positions in units engaged in data processing, personnel, communications, finance, and supply. Subfields include: Data Processing Equipment Operations (741); Data Processing Equipment Maintenance (742). Operational duties involve systems analysis, programming, computer operations, and coding data for use with punched cards, magnetic tapes, and disks. Maintenance duties involve maintenance on tabulating equipment, automatic data processing equipment, viewer computer systems, and related test equipment. Maintenance MOS's require electronic and mechanical aptitude, number facility to solve formulas used in test computations, ability to make delicate adjustments and repairs, and perceptual speed for reading circuit diagrams and mechanical blueprints.

76 Supply

A grouping of MOS's that covers positions in all types of units Army-wide. Effective 3/77, subfields include: Supply General (760); Supply (761); Service (762). Duties may involve procurement, receipt, storage, issue, and administrative control of all classes of supplies, spare

parts, and materiel (except ammunition, nuclear materials, and petroleum). Qualifications include: knowledge of standard supply records and clerical procedures, standard quantity measurements, color codes used to identify supplies, supply catalogs for identification of supply items, safety precautions involved in moving and storing supplies, and operation of office machines without minimum speed requirement.

81 Topographic Engineering (formerly Topographic Engineering and Map Reproduction)

A grouping of MOS's that covers positions primarily in engineering units. Subfields have included: Drafting (811); Surveying (812); Map Reproduction and Printing (813). Subfields now include: Topographic Engineering (810); Cartography (811); Surveying (812); Photolithographer (813). Duties involve topographic survey, map making, reproduction, and printing; topographic instrument and reproduction equipment repair, terrain analysis, and illustrating and model making.

91 Medical

A grouping of MOS's that covers positions in medical units Army-wide. Subfields have included: Prosthetic Appliances (911); Patient Care (912); Physical Medicine (913); Medical Service (914). Subfields now include: Dental (911); Patient Care (912); Health Services (913); Medical Support (914). Duties involve medical care and treatment; medical laboratory testing and analysis, and fabrication and repair of prosthetic appliances. Qualifications include knowledge of the organization and functions of the Army medical service; basic anatomy, physiology, first aid and emergency medical treatment; nomenclature and usage of basic drugs; transportation of sick and wounded; field sanitation; basic nursing techniques; basic principles of disease prevention.

92 Petroleum

A grouping of MOS's that covers positions in petroleum storage and laboratory units. Duties involve receipt, storage, preservation, and distribution of bulk and packaged petroleum products and standard physical and chemical testing of petroleum products.

94 Food Service

A grouping of MOS's that covers positions in the following areas: company, consolidated, and hospital food service activities; bakeries; meat-cutting plants; food service elements of headquarters; and personal staffs of general officers. Duties involve preparation and cooking of food; food service advisory and administrative activities; and service as enlisted aide or cook on the personal staff of a general officer. Qualifications include knowledge of sanitary standards and safety precautions, subsistence storage principles, and use of food service machinery and equipment.

95 Law Enforcement

A grouping of MOS's that covers law enforcement positions. Duties involve patrolling areas, apprehending violators, controlling traffic, quelling disturbances, protecting security sites, guarding military prisoners and prisoners of war, providing correctional treatment for military prisoners in confinement facilities, criminal investigation, and criminal laboratory analysis.

96 Military Intelligence

A grouping of MOS's that covers positions primarily in military intelligence units and in intelligence staff sections in other units. Effective 9/76, subfields include: Controlled Intelligence (961); Technical Intelligence Production (962); Tactical Intelligence Surveillance (963). Duties may involve the collection, analysis, protection, and dissemination of intelligence information through observation, compilation, investigation, survey, language translation and interpretation; electronic listening and sensing; photograph and image interpretation; censorship; technical analysis of enemy equipment; and application of security programs.

97 Band

A grouping of MOS's that covers positions in band units Army-wide. Subfields include: Brass (971); Woodwind (972); Percussion (973); Band Leadership (974); Special Band (975). Duties involve playing brass, woodwind, or percussion instruments in marching, concert, dance, stage, and show bands; playing in combos and instrumental ensembles; and singing in vocal groups and writing and arranging music, when assigned. Qualifications include ability to play one or more band instruments; musical memory for playing compositions without sheet music; and ability to perform certain musical scores at sight.

98 Electronic Warfare (EW) Cryptologic Operations

A grouping of MOS's that cover positions in fixed and mobile units engaged in support of strategic and tactical operations. Duties involve collection of electromagnetic emissions, analysis of these emissions, security of friendly communications and noncommunications, and electronic warfare operations.

Appendix E

Warrant Officer Special Qualifications Identifiers

Special Qualifications Identifiers are used with warrant officer MOS's to identify special qualifications possessed by an individual. The SQI is either a number or a letter; it occupies the fifth character of an MOS designation, replacing the zero that normally occupies that position.

Award of an SQI other than zero may mean that a person's records will show the title of the SQI rather than the title of the MOS. For example, the title for MOS 951A0 is Criminal Investigator; the title for MOS 951AK will normally appear as Polygraph Examiner.

The Special Qualifications Identifiers listed below are arranged by the numeric codes first, then by the alphabetic codes. Each SQI is accompanied by a title and a brief description.

1 Master of Coastal Vessels up to 250 Tons or Chief Engineer of Coastal Vessels up to 750 Horsepower
Identifies persons who have been certified and issued the appropriate license by the U.S. Army Marine Qualifications Board.

2 Master of Coastal Vessels up to 500 Tons or Chief Engineer of Coastal Vessels up to 1,200 Horsepower
Identifies persons who have been certified and issued the appropriate license by the U.S. Army Marine Qualifications Board.

3 Master of Oceans Unlimited Vessels or Chief Engineer of Oceans Unlimited Vessels
Identifies persons who have been certified and issued the appropriate license by the U.S. Army Marine Qualifications Board.

4 Harbormaster/Pilot or Marine Inspector (formerly Research, Development, Test, and Evaluation Technician—see SQI "Z")
Identifies persons who have been certified and issued the appropriate license by the U.S. Army Marine Qualifications Board.

5 Nuclear Power Plant Superintendent
Identifies persons who are qualified to supervise operations and maintenance of power plants equipped for nuclear power generation and who have completed the Nuclear Power Plant Operator course at the U.S. Army Engineer School and the Radiological Safety course at the U.S. Army Ordnance School.

6 Instrument Flight Examiner
See SQI "F."

7 Parachutist
Identifies persons who have completed airborne training.

8 Instructor
Identifies persons qualified as full-time formal instructors at an Army Service School or other organized training facility.

9 Safeguard System Technician (formerly Safeguard)
Identifies persons who have completed the Safeguard Missile Maintenance Technician course or who have completed at least six months work experience with Safeguard system tactical support equipment.

A Air Traffic Control Technician
Identifies persons who are qualified to manage air traffic control operations and procedures and who have completed the Officer/Warrant Officer Air Traffic Control course at the U.S. Army Aviation School.

B Flight Safety Technician
Identifies persons who are qualified to manage aviation unit flight safety programs.

C Instructor Pilot
Identifies persons qualified to instruct student and aviator personnel in the fundamentals of flight, to analyze flight training maneuvers, and to check out aviators on new equipment and aircraft.

D Aeromedical Evacuation Pilot
Identifies persons who are qualified in the procedures and techniques of aeromedical evacuation and who have completed the Army Medical Service Aviator course or have had equivalent experience.

E Aircraft Armament Maintenance Technician (formerly Aircraft Armament Maintenance)
Identifies persons who are qualified to supervise maintenance and repair of aircraft armament systems and who have completed the Aircraft Armament Repair Supervisor course or have equivalent experience.

F Instrument Flight Examiner
Identifies persons who are qualified to conduct written and flight examinations of aviators for award or retention of instrument certificates and who have completed the Instrument Flight Examiner course at the U.S. Army Aviation School.

G Aircraft Maintenance Technician (formerly Investigative Photography—see SQI "N")
Identifies persons who are qualified to supervise maintenance and repair of aircraft and who have completed the Maintenance Resource Management and Maintenance Operations phase of the Aircraft Maintenance Officers course at the U.S. Army Transportation School.

H Aerial Scout (formerly Defense Against Methods of Entry (DAME)—see ASI "9K" in the Warrant Officer Additional Skill Identifiers Appendix)
Identifies persons who have performed aerial scout duties for a minimum of 60 days or who have completed the Air Cavalry/Attack Helicopter Commander Training course or the Air Cavalry Qualifications course at the U.S. Army Armor School.

J Maintenance Test Pilot (formerly Defense Against Sound Equipment (DASE)—see ASI "9L" in the Warrant Officer Additional Skill Identifiers Appendix)
Identifies persons who are qualified to conduct maintenance and/or functional test flights and who have completed the prescribed course of instruction for aircraft maintenance test pilots at the U.S. Army Transportation School.

K Polygraph Examiner (formerly Certified Polygraph Examiner)
Identifies persons certified to conduct polygraph examinations.

L Logistics Technician
Identifies persons holding the position of Criminal Investigation Logistics Technician *or* Communications Security (COMSEC) Logistics Technician. Criminal Investigation Logistics Technician is used with MOS 951A (Criminal Investigator) and identifies persons who are qualified to conduct or supervise criminal investigations and crime surveys involving logistical activities and who have completed prescribed courses at the U.S. Army Logistics Management Center. COMSEC Logistics Technician is used with MOS 290A (Telecommunications Technician) and identifies persons who are qualified to supervise operation of communications security (COMSEC) logistics support activities and who have completed 6 months of experience in an assignment dealing with COMSEC logistics skills.

M Latent Fingerprint Examiner
Identifies persons who are qualified as expert latent fingerprint examiners and who have completed the 104-week Latent

Fingerprint Examiner course at the U.S. Army Criminal Investigation Laboratory.

N Photographer (formerly Nuclear Power Plant Superintendent—see SQI "5")
Identifies persons holding the position of Forensic Photographer (formerly Investigative Photographer) *or* Intelligence Photographer. Forensic Photographer is used with MOS 951A (Criminal Investigator) and identifies persons who have completed the 104-week Forensic Photographer course at the U.S. Army Criminal Investigation Laboratory. Intelligence Photographer is used with MOS 100B (Utility/Observation Helicopter Pilot), MOS 971A (Counterintelligence Technician), and MOS 972A (Area Intelligence Technician) and identifies persons who have completed the Intelligence Photography course at the U.S. Army Intelligence Agency.

P Questioned Document Examiner
Identifies persons qualified as expert documents examiners.

Q Standardization Instructor Pilot
See SQI "C."

R Forensic Chemist (formerly Aircraft Repair Technician—see SQI "G")
Identifies persons who have completed the 27-week Forensic Chemist course at the U.S. Army Criminal Investigation Laboratory.

S Firearms and Toolmark Examiner (formerly Aerial Scout—see SQI "H")
Identifies persons who have completed the 104-week Firearms and Toolmark Examiner course at the U.S. Army Criminal Investigation Laboratory.

T Transition
Identifies persons who begin either formal schooling or on-the-job training for cross-training into an existing MOS and/or qualification training for new weapons or equipment.

U Maintenance Test Pilot
See SQI "J."

V Support Repair Technician
Identifies persons holding the position of Depot Support/General Support (DS/GS) Repair Technician *or* Communications Security (COMSEC) Equipment Repair Technician. DS/GS Repair Technician is used with any non-aviation MOS to identify persons who are qualified to conduct or supervise maintenance activities. COMSEC Equipment Repair Technician is used with MOS 290A (Telecommunications Technician) and identifies persons who are qualified to supervise maintenance of communications security equipment.

W ADP Operations Technician
Identifies persons who are qualified to supervise operation of automatic data processing (ADP) machines and ancillary equipment and who have completed the ADP Officers course at the U.S. Army Institute of Administration or have equivalent occupational and educational experience.

X ADP Programmer/Systems Analysis Technician
Identifies persons qualified to perform automatic data processing (ADP) programming and conduct systems analyses.

Y Telecommunications Systems Analyst (formerly Air Traffic Control Technician—see SQI "A")
Identifies persons who are qualified to supervise or perform analysis of computer-driven telecommunications systems and who have completed the advanced Automatic Data Processing Systems Analysis course or have equivalent training and experience.

Z Research, Development, Test, and Evaluation Technician
Identifies persons qualified in design, development, test, or evaluation of military materiel, doctrine, methods, systems, or organizations.

Appendix F

Warrant Officer Additional Skill Identifiers

An Additional Skill Identifier is used with a warrant officer MOS to identify and define specialized skills or equipment. It consists of a number and a letter, and occupies the sixth and seventh positions in an MOS designation. The award of an ASI requires two or more weeks of formal schooling or equivalent work experience.

Each Additional Skill Identifier listed below is accompanied by a title and a brief description.

1A OH–13 Pilot
Qualified as OH–13 pilot.

1B OH–23 Pilot
Qualified as OH–23 pilot.

1C OH–6 Pilot
Qualified as OH–6 pilot.

1D OH–58 (Scout Configuration)
Qualified as OH–58 pilot.

1E UH–1 Pilot
Qualified as UH–1 pilot.

1F CH–34 Pilot
Qualified as CH–34 pilot.

1G CH–47 Pilot
Qualified as CH–47 pilot.

1H CH–54 Pilot
Qualified as CH–54 pilot.

1J AH–1G Pilot
Qualified as AH–1G pilot.

1K VH–3A Pilot
Qualified as VH–3A pilot.

1L CH–37 Pilot
Qualified as CH–37 pilot.

1M AH–1Q/AH–1S Pilot (formerly AH–1Q(Cobra-TOW))
Qualified as AH–1Q/AH–1S pilot.

1N UH–60 Pilot
Qualified as UH–60 pilot.

1P OH–58 Pilot
Qualified as OH–58 pilot.

1U EH–1 Pilot
Qualified as EH–1 pilot.

1Y Non-standard Helicopter Pilot
Qualified as non-standard helicopter pilot.

1Z M–22 Gunner
Knowledge of the M–22 armament subsystem and the tactical employment of UH–1 helicopters equipped with the M–22 aerial gunnery system.

2A O–1; TO–1 Pilot
Qualified as O–1, TO–1 pilot.

2B T–41 Pilot
Qualified as T–41 pilot.

2C U–1 Pilot
Qualified as U–1 pilot.

2D U–6 Pilot
Qualified as U–6 pilot.

2E U–8 Pilot
Qualified as U–8 pilot.

2F T–42 Pilot
Qualified as T–42 pilot.

2G U–9 Pilot
Qualified as U–9 pilot.

2H U–10 Pilot
Qualified as U–10 pilot.

2J U–21 Pilot
Qualified as U–21 pilot.

2K OV–1; RV–1 Pilot (formerly OV–1)
Qualified as OV–1, RV–1 pilot.

2L P2V Pilot
Qualified as P2V pilot.

2M C–45 Pilot
Qualified as C–45 pilot.

2N C–47 Pilot
Qualified as C–47 pilot.

2P C–12 Pilot
Qualified as C–12 pilot.

2Q CV–2 Pilot
Qualified as CV–2 pilot.

2R RU–21 Pilot
Qualified as RU–21 pilot.

2S UV–18 Pilot
Qualified as UV–18 pilot.

2Z Non-standard Fixed-Wing Aircraft Pilot
Qualified as non-standard fixed-wing aircraft pilot.

3A Avionics and Navigation Equipment Repair Technician
Repair of avionics and navigation equipment.

3B Fixed C-E Equipment Repair Technician
Repair of fixed communications electronic equipment.

3C Tactical C-E Equipment Repair Technician
Repair of tactical communications electronic equipment.

3D Radar Equipment Repair Technician
Repair of radars and ancillary equipment.

3E Satellite Communications System Repair Technician
Repair of satellite communications terminal equipment.

3F Transmission Systems Repair Technician
Repair of communications transmission equipment and systems.

3K IBM 360/65
Repair of the IBM 360/65 data processing equipment.

3L IBM 360/30
Repair of the IBM 360/30 data processing equipment.

3M IBM 360/40
Repair of the IBM 360/40 data processing equipment.

3N Army Autodin Systems
Repair of Army autodin systems equipment.

3P AN/TSQ–73
Repair of the AN/TSQ–73 equipment.

3Q AN/TSQ–51
Repair of the AN/TSQ–51 equipment.

3R AN/TSQ–38
Repair of the AN/TSQ–38 equipment.

3X Cryptanalytic Technician
See ASI "9B."

5A Missile System Technician, Basic Hawk
Knowledge of the basic Hawk missile system.

5J Technical Escort
Qualified as a technical escort.

5K Critical Nuclear Surety
Qualified to hold critical nuclear surety positions.

5L Controlled Nuclear Surety
Qualified to hold controlled nuclear surety positions.

5V Salvage Diver
Qualified as marine divers.

5Z Missile System Technician, Sergeant (formerly Field Artillery Missile System, Sergeant)
Knowledge of the Sergeant missile system.

6A Defense Sensor Interpretation and Application Training Program

(DSIATP)
See ASI "9A."

7A Military Pay Technician
Qualified to perform duties involving military pay.

7B Court Reporter
Qualified as court reporter.

7C RCA 301, 501
Operation or repair of RCA 301, 501 equipment.

7D RCA 3301—Spectra 70
Operation or repair of RCA 3301—Spectra 70 equipment.

7E IBM 7000 Series
Operation or repair of IBM 7000 series equipment.

7F IBM 360
Operation or repair of IBM 360 equipment.

7G GE 600
Operation or repair of GE 600 equipment.

7H Burroughs 3500
Operation or repair of Burroughs 3500 equipment.

7J IBM 1401
Repair of IBM 1401 equipment.

7K UNIVAC 1004, 1005
Operation or repair of UNIVAC 1004, 1005 equipment.

7L NCR 500
Operation or repair of NCR 500 equipment.

7M IBM 1410
Operation or repair of IBM 1410 equipment.

7N IBM 1401, 1410, 1440, 1460, 1620
Operation or repair of IBM 1401, 1410, 1440, 1460, 1620 equipment.

7P GE 200 Series
Operation of GE 200 series equipment.

7Q FORTRAN, eneration
Use of Formula Translation (FORTRAN) 2d generation machine language in development of computer programs.

7R COBOL, 2d generation
Use of Common Business Oriented Language (COBOL) 2d generation machine language in development of computer programs.

7S SAAL
Use of SAAL machine language in the development of computer programs.

7T FORTRAN, 3d Generation
Use of Formula Translation (FORTRAN) 3d generation machine language in development of computer programs.

7U Assembly Language, 2d Generation
Use of Assembly Language 2d generation machine language in development of computer programs.

7V COBOL, 3d Generation
Use of Common Business Oriented Language (COBOL) 3d generation machine language in development of computer programs.

7W Assembly Language, 3d Generation
Use of Assembly Language 3d generation machine language in development of computer programs.

7X Manpower/Force Manager
Knowledge of military and civilian manpower management policies including planning, programming, development, and evaluation of organizational structure, determination of requirements, allocation of resources, position classification, and familiarity with automated systems which support these functions.

7Y Executive Club Manager
Qualified as executive club manager.

7Z SHAL-A Computer Language
Use of SHAL-A machine language in development of computer programs.

9A Defense Sensor Interpretation and Application Training Program (DSIATP) (formerly ASI "6A")
Qualified in the Defense Sensor Interpretation and Application Training Program.

9B Cryptanalytic Technician (formerly ASI "3X")
Qualified to decipher encrypted intercepted communications.

9K Defense Against Methods of Entry (DAME) (formerly SQI "H")
Qualified to supervise personnel engaged in activities to defend against surreptitious entry.

9L Defense Against Sound Equipment (DASE) Technician (formerly SQI "J")
Qualified to supervise personnel engaged in activities to defend against surreptitious use of sound detection equipment.

9M Technical Intelligence
Qualified in the identification, analysis, and evaluation of technological developments or in the operation, employment, or maintenance of enemy or potential enemy systems or materiel.

Army Occupational Title Index

The following columns cross-reference Army enlisted and warrant officer MOS titles to MOS exhibit ID numbers. Titles are listed alphabetically.

Accounting Specialist	MOS-73D-001 MOS-73D-002
ADA (Air Defense Artillery) Short Range Gunnery Crewman	MOS-16R-002
ADA (Air Defense Artillery) Short Range Missile Crewman	MOS-16P-001
Administrative Specialist	MOS-71L-001 MOS-71L-002
ADMSE Repairman	MOS-34H-001
ADMSE Repairer	MOS-34H-002
ADMS Peripheral Equipment Repairman	MOS-34L-001
ADP (Automatic Data Processing) Systems Analyst	MOS-74G-001
ADPS (Automatic Data Processing Systems) Maintenance Supervisor	MOS-34Z-001
ADPS (Automatic Data Processing Systems) Repairman	MOS-34D-001
ADPS Machine Operations Specialist	MOS-74D-001
Aerial Electronic Warning Defense Equipment Repairer	MOS-26K-002
Aerial Sensor Specialist (OV-1B/C)	MOS-17L-002
Aerial Sensor Specialist (OV-1D)	MOS-96H-001
Aerial Surveillance Infrared Repairer	MOS-26N-002
Aerial Surveillance Photographic Equipment Repairer	MOS-41G-002
Aerial Surveillance Radar Repairer	MOS-26M-002
Aerial Surveillance Sensor Repairer	MOS-26E-001
AH-1G Helicopter Repairman	MOS-67Y-001
Air Defense Artillery (ADA) Operations and Intelligence Assistant	MOS-16H-001
Air Defense Artillery (ADA) Senior Sergeant	MOS-16Z-001
Air Defense Missile Fire Control Technician, Nike (Warrant Officer)	MOS-222B-001
Air Defense Missile System Repair Technician, Improved Hawk (Warrant Officer)	MOS-223B-001
Air Defense Missile System Repair Technician, Nike (Warrant Officer)	MOS-251B-001
Air Defense Missile System Technician, Improved Hawk (Warrant Officer)	MOS-223B-001
Air Defense Radar Repairman	MOS-26H-001
Air Traffic Control (ATC) Tower Operator	MOS-93H-001 MOS-93H-002
Airborne Sensor Specialist	MOS-17L-001
Airborne Surveillance Radar Repairman	MOS-26M-001
Airbrake Repairman	MOS-65E-001
Aircraft Armament Repairman	MOS-45J-001
Aircraft Armament Subsystem Mechanic	MOS-45M-001
Aircraft Components Repair Supervisor	MOS-68K-001
Aircraft Electrician	MOS-68F-001 MOS-68F-002
Aircraft Fire Control Repairman	MOS-35J-001
Aircraft Hydraulics Repairman	MOS-68H-001
Aircraft Maintenance Senior Sergeant	MOS-67Z-001 MOS-67Z-002
Aircraft Pneudraulics Repairer	MOS-68H-002
Aircraft Powerplant Repairer	MOS-68B-002
Aircraft Powertrain Repairer	MOS-68D-002
Aircraft Powertrain Repairman	MOS-68D-001
Aircraft Quality Control Supervisor	MOS-67W-002
Aircraft Rotor and Propeller Repairman	MOS-68E-001
Aircraft Structural Repairer	MOS-68G-002
Aircraft Turbine Engine Repairman	MOS-68B-001
Airdrop Equipment Repair Technician (Warrant Officer)	MOS-401A-001
Airframe Repairman	MOS-68G-001
Airplane Repairer	MOS-67G-002
Airplane Technical Inspector	MOS-67F-001
Ammunition Foreman	MOS-55Z-001
Ammunition Inspector	MOS-55X-001
Ammunition Specialist	MOS-55B-002
Ammunition Storage and Operations Specialist	MOS-55B-001 MOS-55B-002
Ammunition Technician (Warrant Officer)	MOS-411A-001
Animal Specialist	MOS-91T-002
Antennaman	MOS-36D-001
Anti-Ballistic Missile Maintenance Specialist	MOS-28M-001
AN/TSQ-51 System Repairman/Maintenance Chief	MOS-25K-001
AN/TSQ-73 Air Defense Artillery Command and Control System Operator/Repairer	MOS-25L-001
Area Air Defense Artillery Crewman	MOS-16R-002
Area Communications Chief	MOS-31Z-001
Area Intelligence Specialist	MOS-97C-001
Area Intelligence Technician (Warrant Officer)	MOS-972A-001
Armament Maintenance Foreman	MOS-45Z-001
Armament Repair Technician (Warrant Officer)	MOS-421A-001
Armor Crewman	MOS-11E-001 MOS-11E-002
Armor Reconnaissance Specialist	MOS-11D-001 MOS-11D-002
Army Attaché Administrative Officer (Warrant Officer)	MOS-961A-001
Artillery Repairman	MOS-45L-001
Artillery Surveyor	MOS-82C-001
Arts and Crafts Specialist	MOS-03D-001
Asphalt Equipment Operator	MOS-62D-001
Assistant Special Agent	MOS-95D-001
ATC (Air Traffic Control) Radar Controller	MOS-93J-001
Atomic Demolition Munitions Specialist	MOS-12E-001 MOS-12E-002
Attache Specialist	MOS-71S-001
Attache Technician (Warrant Officer)	MOS-961A-001
Attack Helicopter Pilot (Warrant Officer)	MOS-100E-001
Attack Helicopter Repairer	MOS-67Y-002
Audio Specialist	MOS-84D-001
Audio/TV Specialist	MOS-84F-002
Audio-Visual Equipment Repairman	MOS-41E-002
Automotive Repairman	MOS-63H-001 MOS-63H-002 MOS-63H-003

Automotive Repair Parts Specialist MOS–76S–001
Automotive Repair Technician (Warrant Officer)..... MOS–630A–001
Aviation Maintenance Technician (Warrant Officer) .. MOS–160A–001
Aviation Technician (Warrant Officer) MOS–160A–001
Avionic Communications Equipment Repairer MOS–35L–002
Avionic Communications Equipment Repairman MOS–35L–001
Avionic Equipment Maintenance Supervisor MOS–35P–001 MOS–35P–002
Avionic Flight Control Equipment Repairman MOS–35N–001
Avionic Mechanic MOS–35K–002
Avionic Navigation and Flight Control Equipment Repairer MOS–35M–002
Avionic Navigation Equipment Repairman MOS–35M–001
Avionic Radar Equipment Repairman MOS–35R–001
Avionic Special Equipment Repairer MOS–35R–002
Avionics Mechanic MOS–35K–001

Baker MOS–94D–001
Ballistic Meteorology Crewman MOS–93F–001
Bandmaster (Warrant Officer) MOS–031A–001
Baritone-Euphonium Player MOS–02C–001 MOS–02C–002
Bassoon Player MOS–02K–001 MOS–02K–002
Behavioral Science Specialist MOS–91G–001 MOS–91G–002
Biological Sciences Assistant MOS–01H–001
Biomedical Equipment Maintenance Chief MOS–35U–001
Biomedical Equipment Repairman MOS–35G–001
Biomedical Equipment Repair Technician (Warrant Officer) MOS–202A–001
BIRDIE Repairman MOS–25D–001
Brace Specialist MOS–42C–001
Brass Group Leader MOS–02P–001
Bridge Crewman MOS–12C–002
Bridge Specialist MOS–12C–001
Broadcast Journalist MOS–71R–002
Broadcast Specialist MOS–71R–001

Cable Splicer MOS–36E–001
Calibration Specialist MOS–35H–001 MOS–35H–002
Calibration Technician (Warrant Officer) MOS–252A–001
Camera Repairman MOS–41E–001
Camouflage Specialist MOS–51E–001
Cannon Crewman MOS–13B–002
Cannoneer MOS–13A–001
Cannon Fire Direction/Fire Support Specialist MOS–13E–002
Cannon/Missile Senior Sergeant MOS–13Y–001
Canvas Repairman MOS–43K–001
Carbon Dioxide—Hydrogen Production Specialist MOS–53C–001
Card and Tape Writer MOS–74B–001
Cardiac Laboratory Specialist MOS–91N–001
Cardiac Specialist MOS–91N–002
Cargo Handler MOS–57H–001
Cargo Helicopter Pilot (Warrant Officer) MOS–100C–001
Carpenter MOS–51B–001
Cartographer MOS–81C–002
Cartographic Draftsman MOS–81C–001
Cartographic Specialist MOS–81C–001
Central Office Operations Specialist MOS–72H–001
Central Office Switchboard Operator MOS–72C–001
CH–47 Helicopter Repairman MOS–67U–001
CH–54 Helicopter Repairman MOS–67X–001
Chaparral Crewman MOS–16P–001
Chaparral/Redeye Repairer MOS–27G–002
Chaparral System Mechanic MOS–24N–001 MOS–24N–002
Chaparral/Vulcan Air Defense System Repairman MOS–27F–001
Chaparral/Vulcan System Technician (Warrant Officer) MOS–224B–001
Chaplain's Assistant MOS–71M–001 MOS–71M–002
Chemical Engineering Assistant MOS–01G–001
Chemical Equipment Repairman MOS–54D–001 MOS–54D–002
Chemical Laboratory Specialist MOS–92D–001 MOS–92D–002
Chemical Operations Assistant MOS–54A–001
Chemical Operations Specialist MOS–54E–002
Chemical Staff Specialist MOS–54E–001
Civil Engineering Assistant MOS–01D–001
Clarinet Player MOS–02J–001 MOS–02J–002
Clerk-Typist MOS–71B–001
Clinical Specialist MOS–91C–001 MOS–91C–002
Club Manager MOS–00J–001
Club Manager (Warrant Officer) MOS–021A–001
Combat Area Surveillance Radar Repairer MOS–26C–002
Combat Area Surveillance Radar Repairman MOS–26C–001
Combat Engineer MOS–12B–001 MOS–12B–002 MOS–12B–003
Combat Engineer Senior Sergeant MOS–12Z–001
Combat Engineering Senior Sergeant MOS–12Z–002
Combat Engineer Tracked Vehicle Crewman MOS–12F–001
Combat Service/Support Fixed-Wing Pilot (Warrant Officer) MOS–100Q–001
Combat Surveillance and Target Acquisition Crewman MOS–17A–001
Combat Surveillance and Target Acquisition NCO MOS–17Z–001
Combat Surveillance Fixed-Wing Pilot (Warrant Officer) MOS–100R–001
Command Sergeant Major MOS–00Z–001
Communications Center Specialist MOS–72B–001
Communications-Electronics Equipment Repair Technician (Warrant Officer) MOS–286A–001
Computer/Machine Operator MOS–74D–002
Computer Programmer MOS–74F–001
Computer Systems Operator MOS–74E–001
Concrete Paving Equipment Operator MOS–62H–001
Construction and Utilities Worker MOS–51A–001
Construction Draftsman MOS–81B–001 MOS–81B–002
Construction Equipment Repairman MOS–62B–002
Construction Foreman MOS–51H–001
Construction Machine Supervisor MOS–62N–001
Construction Surveyor MOS–82B–001
Cornet-Trumpet Player MOS–02B–001 MOS–02B–002
Correctional Specialist MOS–95C–001
Counterbattery/Countermortar Radar Crewman MOS–17B–001
Counterintelligence Agent MOS–97B–001 MOS–97B–002

Counterintelligence Technician (Warrant Officer)	MOS-971A-001
Court Reporter	MOS-71E-001 MOS-71E-002 MOS-71E-003
Crane Operator	MOS-62F-001
Crawler Tractor Operator	MOS-62E-001
Criminal Investigator (Warrant Officer)	MOS-951A-001
Cryptanalytic Specialist	MOS-98B-001
Data Communications Switching Center Specialist	MOS-72G-001
Data Communications Terminal Specialist	MOS-72F-001
Data Processing Systems Repair Technican (Warrant Officer)	MOS-287A-001
Data Processing Technician (Warrant Officer)	MOS-741A-001
Decontamination Specialist	MOS-54B-001
Defense Acquisition Radar Crewman	MOS-16J-001
Defense Acquisition Radar Mechanic	MOS-24P-001
Dental Fixed Prosthetic Specialist	MOS-42F-001
Dental Laboratory Specialist	MOS-42D-002
Dental Removable Prosthetic Specialist	MOS-42D-001
Dental Specialist	MOS-91E-001 MOS-91E-002
Dial Central Office Repairman	MOS-36H-001
Diver	MOS-00B-001
Dog Trainer	MOS-00C-001
Drill Sergeant	MOS-00F-001
DSTE Repairman	MOS-34F-001
Ear, Nose, and Throat Specialist	MOS-91U-001 MOS-91U-002
Electrical-Electronic Engineering Assistant	MOS-01B-001
Electrician	MOS-51R-001
Electronic Biomedical Equipment Repairman	MOS-35S-001
Electronic Instrument Repairman	MOS-35B-001 MOS-35B-002
Electronic Switching Systems Repairman	MOS-36L-001
Electronic Warfare Equipment Repairman	MOS-26K-001
Electronic Warfare/Intercept Equipment Repair Technician (Warrant Officer)	MOS-285A-001
Emanations Analysis Technician (Warrant Officer)	MOS-983A-001
Emitter Location/Identification Technician (Warrant Officer)	MOS-986A-001
Engineer Equipment Repairman	MOS-62B-001 MOS-62B-002
Engineer Equipment Repair Technician (Warrant Officer)	MOS-621A-001
Engineer Missile Equipment Specialist	MOS-62C-001
Enlisted Aide	MOS-00H-001
Enlisted Bandleader	MOS-02Z-001
ENT Specialist	MOS-91U-002
Environmental Health Specialist	MOS-91S-002
EW/Cryptologic Cryptanalyst	MOS-98B-001
EW/Cryptologic Operations Chief	MOS-98Z-001
EW/Intercept Systems Repairer	MOS-33S-001
EW/Intercept Systems Repairman	MOS-33S-001
EW/Signal Intelligence Analyst	MOS-98C-001
EW/Signal Intelligence Chief	MOS-98Z-001
EW/Signal Intelligence Emitter Identifier/Locater	MOS-05D-001
EW/Signal Intelligence Morse Interceptor	MOS-05H-001
EW/Signal Intelligence Noncommunications Interceptor	MOS-98J-001
EW/Signal Intelligence Non-Morse Interceptor	MOS-05K-001
EW/Signal Intelligence Voice Interceptor	MOS-98G-001
Expert Linguist	MOS-04C-001
Explosive Ordnance Disposal Specialist	MOS-55D-001
Eye Specialist	MOS-91Y-001 MOS-91Y-002
Fabric and Leather Repair Foreman	MOS-43M-001
Fabric Repairman	MOS-43M-002
Fabric Repair Specialist	MOS-43M-003
Field Artillery Basic	MOS-13A-001
Field Artillery Cannon Operations/Fire Direction Assistant	MOS-13E-001
Field Artillery Cannon Senior Sergeant	MOS-13Z-001
Field Artillery Crewman	MOS-13B-001
Field Artillery Meteorological Crewman	MOS-93F-002
Field Artillery Missile/Rocket Senior Sergeant	MOS-15Z-001
Field Artillery Missile System Repair Technician Pershing (Warrant Officer)	MOS-241F-001
Field Artillery Missile System Technician, Lance (Warrant Officer)	MOS-214G-001
Field Artillery Missile System Technician, Pershing (Warrant Officer)	MOS-214E-001
Field Artillery Radar Crewman	MOS-17B-001 MOS-17B-002
Field Artillery Radar Technician (Warrant Officer)	MOS-211A-001
Field Artillery Senior Sergeant	MOS-13Z-001
Field Artillery Surveyor	MOS-82C-002
Field Artillery Target Acquisition Senior Sergeant	MOS-13W-001
Field Artillery Target Acquisition Specialist	MOS-17C-002
Field Communications-Electronics Equipment Mechanic	MOS-31B-001
Field General COMSEC Repairman	MOS-31S-001
Field Illumination Crewman	MOS-17E-001
Field Radio Mechanic	MOS-31B-001
Field Radio Relay Equipment Repairman	MOS-31L-001
Field Radio Repairman	MOS-31E-001
Field Systems COMSEC Repairman	MOS-31T-001
Field Wireman	MOS-36K-001
Finance Senior Sergeant	MOS-73Z-001
Finance Specialist	MOS-73C-001 MOS-73C-002
Fire Control Computer Repairman	MOS-34G-001
Fire Control Instrument Repairman	MOS-41C-001 MOS-41C-002
Firefighter	MOS-51M-001
Fixed Ciphony Repairman	MOS-32F-001
Fixed Cryptographic Equipment Repairman	MOS-32G-001
Fixed Plant Carrier Repairman	MOS-32E-001
Fixed Station Chief	MOS-32Z-001
Fixed Station Radio Repairman	MOS-32H-001
Fixed Station Technical Controller	MOS-32D-001
Flash Ranging Crewman	MOS-17D-001
Flight Operations Coordinator	MOS-71P-001 MOS-71P-002
Flute-Piccolo Player	MOS-02G-001 MOS-02G-002
Food Advisor (Warrant Officer)	MOS-041A-001
Food Inspection Specialist	MOS-91R-001
Food Service Advisor (Warrant Officer)	MOS-041A-001
Food Service Specialist	MOS-94B-001 MOS-94B-002 MOS-94B-003
Food Service Supervisor	MOS-94Z-001

Food Service Technician (Warrant Officer) MOS-041A-001
French Horn Player MOS-02D-001
MOS-02D-002
Fuel and Electrical Systems Repairman MOS-63G-001

General Construction Machine Operator MOS-62J-001
General Draftsman MOS-81A-001
General Staff Administrative Technician (Warrant Officer) MOS-712A-001
General Supply Technician (Warrant Officer) MOS-761A-001
Grader Operator MOS-62K-001
Graves Registration Specialist MOS-57F-003
Ground Control Approach Radar Repairer MOS-26D-002
Ground Control Approach Radar Repairman MOS-26D-001
Ground Surveillance Radar Crewman MOS-17K-001
MOS-17K-002
Guitar Player MOS-02T-001
MOS-02T-002

Hawk Continuous Wave Radar Mechanic MOS-24B-001
Hawk Continuous Wave Radar Repairman MOS-23T-001
MOS-23T-002
Hawk Fire Control Crewman MOS-16E-001
Hawk Fire Control Mechanic MOS-24F-001
Hawk Fire Control Repairman MOS-23Q-001
Hawk Maintenance Chief MOS-23V-001
Hawk Missile Crewman MOS-16D-001
Hawk Missile-Launcher Mechanic MOS-24D-001
MOS-24D-002
Hawk Missile-Launcher Repairman MOS-22K-001
MOS-22K-002
Hawk Pulse Radar Repairman MOS-23S-001
Heating and Cooling Specialist MOS-51L-001
Heating and Ventilating Specialist MOS-51J-001
Heavy Lift Helicopter Pilot (Warrant Officer) MOS-100D-001
Heavy Lift Helicopter Repairer MOS-67X-002
Helicopter Missile Systems Repairer MOS-68J-001
Helicopter Technical Inspector MOS-67W-001
Helicopter Weapon Systems Repairer MOS-68M-001
Hercules Electronics Mechanic MOS-24U-001
Hercules Fire Control Crewman MOS-16C-001
Hercules Missile Crewman MOS-16B-001
MOS-16B-002
Honest John Rocket Crewman MOS-15F-001
MOS-15F-002
Hospital Food Service Specialist MOS-94F-001
MOS-94F-002

IBM 360 Repairman MOS-34K-001
Illustrator MOS-81E-001
MOS-81E-002
Image Interpretation Technician (Warrant Officer) MOS-962A-001
Image Interpreter MOS-96D-001
MOS-96D-002
Improved Hawk Continuous Wave Radar Repairman MOS-24K-001
MOS-24K-002
Improved Hawk Fire Control Mechanic MOS-24E-001
Improved Hawk Fire Control Repairman MOS-24H-001
MOS-24H-002
Improved Hawk Firing Section Mechanic MOS-24C-001
Improved Hawk Information Coordination Central Mechanic MOS-24G-001
Improved Hawk Launcher and Mechanical Systems Repairman MOS-24L-001
Improved Hawk Maintenance Chief MOS-24V-001
MOS-24V-002
Improved Hawk Mechanical Systems Repairman MOS-46D-001
Improved Hawk Pulse Radar Repairman MOS-24J-001
MOS-24J-002
Indirect Fire Infantryman MOS-11C-001
Infantryman MOS-11B-001
MOS-11B-002
Information Specialist MOS-71Q-001
Intelligence Analyst MOS-96B-001
MOS-96B-002
Intelligence Senior Sergeant MOS-96Z-001
Intelligence Technician (Warrant Officer) MOS-971A-001
Interrogation Technician (Warrant Officer) MOS-963A-001
Interrogator MOS-96C-001
MOS-96C-002

Journalist MOS-71Q-002

Lance/Honest John Operations/Fire Direction Assistant MOS-15J-001
Lance/Honest John Operations/Fire Direction Specialist MOS-15J-002
Lance Missile Crewman MOS-15D-001
MOS-15D-002
Lance Missile System Repairman MOS-27D-001
Land Combat Support Missile Systems Repair Technician (Warrant Officer) MOS-271A-001
Land Combat Support System Test Specialist MOS-27B-001
Land Combat Support System Test Specialist/Lance Repairer MOS-27B-002
Laundry and Bath Specialist MOS-57E-001
MOS-57E-002
LCSS Missile Maintenance Chief MOS-27Z-001
Legal Administrative Technician (Warrant Officer) MOS-713A-001
Legal Clerk MOS-71D-001
MOS-71D-002
Light Air Defense Artillery Crewman (Reserve Forces) MOS-16F-001
Light Weapons Infantryman MOS-11B-001
Lineman MOS-36C-001
Locomotive Electrician MOS-65F-001
Locomotive Operator MOS-65H-001
Locomotive Repairman MOS-65B-001

Machinist MOS-44E-001
MOS-44E-002
Maneuver Combat Arms Sergeant MOS-11Z-001
Manual Central Office Repairman MOS-36G-001
Marine Deck Officer (Warrant Officer) MOS-500A-001
Marine Engineer MOS-61C-001
Marine Engineering Officer (Warrant Officer) MOS-510A-001
Marine Hull Repairman MOS-61F-001
Marine Senior Sergeant MOS-61Z-001
Mason MOS-51D-001
Materiel Supplyman MOS-76D-001
Mathematics-Statistics Assistant MOS-01E-001
Mechanical Engineering Assistant MOS-01C-001

Mechanical Maintenance Supervisor MOS-63Z-001
Medical Corpsman MOS-91A-001
Medical Equipment Repairman MOS-35G-001
Medical Laboratory Specialist MOS-92B-001
MOS-92B-002
Medical Records Specialist MOS-71G-001
MOS-71G-002
Medical Senior Sergeant MOS-91Z-001
Medical Specialist MOS-91B-001
MOS-91B-002
Medical Supplyman MOS-76J-001
MOS-76J-002
Medium Helicopter Repairer MOS-67U-002
Memorial Activities Specialist MOS-57F-001
MOS-57F-002
Metal Body Repairman MOS-44B-001
Metal Worker MOS-44B-002
Meteorological Equipment Repairman MOS-35D-001
Meteorological Observer MOS-93E-001
Meteorology Technician (Warrant Officer) MOS-201A-001
Military Intelligence Coordinator MOS-97D-001
Military Physician's Assistant (Warrant Officer) MOS-011A-001
Military Police MOS-95B-002
Military Policeman MOS-95B-001
Missile Assembly Technician, Nike (Warrant Officer) MOS-221B-001
Missile Fire Control Technician, Nike (Warrant Officer) MOS-22B-001
Missile Maintenance TECHNICIAN, Safeguard (Warrant Officer) MOS-221C-001
Missile System Technician, Improved Hawk (Warrant Officer) MOS-223B-001
Missile System Technician, Lance (Warrant Officer) .. MOS-214G-001
Missile System Technician, Pershing (Warrant Officer) MOS-214E-001
Missile Tank Turret Mechanic MOS-45R-001
Mobile ADCP Monitor Repairman MOS-25G-001
Morse Intercept Technician (Warrant Officer) MOS-984A-001
Motion Picture Photographer MOS-84C-001
Motion Picture Specialist MOS-84C-002
Motor Transport Operator MOS-64C-001
MOS-64C-002
Multichannel Communications Equipment Operator .. MOS-31M-002
Multichannel Communications Equipment Repairman MOS-31L-001

NCR 500 Computer Repairman MOS-34E-001
Neuropsychiatric Specialist MOS-91F-001
Nike-Hercules Fire Control Mechanic MOS-24Q-001
Nike-Hercules Missile-Launcher Repairman MOS-22N-001
Nike High Power Radar-Simulator Repairman MOS-23U-001
Nike Maintenance Chief MOS-23W-001
Nike Test Equipment Repairman MOS-22L-001
Nike Track Radar Repairman MOS-23N-001
Non-Morse Intercept Technician (Warrant Officer). ... MOS-985A-001
Nuclear Medicine Specialist MOS-91W-001
MOS-91W-002
Nuclear Power Plant Chief MOS-52M-001
Nuclear Power Plant Electrician or Operator MOS-52J-001
Nuclear Power Plant Instrumentman or Operator MOS-52K-001
Nuclear Power Plant Mechanic or Operator MOS-52H-001
Nuclear Power Plant Process Control Specialist or Operator MOS-52L-001
Nuclear Weapons Electronics Specialist MOS-35F-001
Nuclear Weapons Maintenance Specialist MOS-55G-001
Nuclear Weapons Technician (Warrant Officer) MOS-260A-001

O-1/U-6 Airplane Repairman MOS-67B-001
Oboe Player MOS-02H-001
MOS-02H-002
Observation/Scout Helicopter Repairer MOS-67V-002
OC-CDC Repairman MOS-25J-001
Occupational Therapy Specialist MOS-91L-001
MOS-91L-002
Office Machine Repairman MOS-41J-001
MOS-41J-002
Offset Pressman MOS-83F-001
OH-6/OH-58 Helicopter Repairman MOS-67V-001
Operating Room Specialist MOS-91D-001
MOS-91D-002
Operations Central Repairman MOS-25J-001
Optical Laboratory Specialist MOS-42E-001
MOS-42E-002
Order of Battle Technician (Warrant Officer) MOS-964A-001
Orthopedic Specialist MOS-91H-001
MOS-91H-002
Orthotic Specialist MOS-42C-002
OV-1 Airplane Repairman MOS-67H-001
Oxygen-Acetylene Production Specialist MOS-53B-001

Parachute Rigger MOS-43E-001
MOS-43E-002
Percussion Group Leader MOS-02R-001
Percussion Player MOS-02M-001
MOS-02M-002
Performing Arts Specialist MOS-03B-001
Pershing Communications Specialist MOS-31D-001
Pershing Electrical-Mechanical Repairer MOS-46N-002
Pershing Electrical-Mechanical Repairman MOS-46N-001
Pershing Electronics Materiel Specialist MOS-21G-001
MOS-21G-002
Pershing Electronics Repairer MOS-21L-002
Pershing Electronics Repairman MOS-21L-001
Pershing Missile Crewman MOS-15E-001
MOS-15E-002
Personnel Actions Specialist MOS-75E-001
MOS-75E-002
Personnel Administration Specialist MOS-75B-002
Personnel Management Specialist MOS-75C-001
MOS-75C-002
Personnel Records Specialist MOS-75D-001
MOS-75D-002
Personnel Senior Sergeant MOS-75Z-001
MOS-75Z-002
Personnel Technician (Warrant Officer) MOS-711A-001
Petroleum Laboratory Specialist MOS-92C-001
MOS-92C-002
Petroleum Storage Specialist MOS-76W-001
Petroleum Supply Specialist MOS-76W-001
MOS-76W-002
Pharmacy Specialist MOS-91Q-001
MOS-91Q-002
Photo and Layout Specialist MOS-83E-002
Photographic Equipment Repair Chief MOS-41H-001
Photographic Laboratory Specialist MOS-84G-001
Photolithographer MOS-83F-002
Photolithography Chief MOS-83Z-001
Photomapping Technician (Warrant Officer) MOS-811A-001

Physical Activities Specialist MOS-03C-001 MOS-03C-002
Physical Sciences Assistant MOS-01F-001
Physical Therapy Specialist MOS-91J-001 MOS-91J-002
Pipeline Specialist MOS-51F-001
Piano Player MOS-02N-001 MOS-02N-002
Platemaker MOS-83E-001
Plumber MOS-51K-001
Postal Clerk MOS-71F-001
Powered Bridge Specialist MOS-12D-001
Power Generation Equipment Operator/Mechanic MOS-52B-001 MOS-52B-002
Power Generation Equipment Repairman MOS-52D-001
Power Pack Specialist MOS-52C-001
Power Station Operator MOS-52E-001
Preventive Medicine Specialist MOS-91S-001
Printer's Apprentice MOS-83A-001
Process Photographer MOS-83D-001
Programmer/Analyst MOS-74F-002
Projector Repairman MOS-41F-001
Psychiatric Specialist MOS-91F-002
Public Affairs/Audio Visual Chief MOS-84Z-001

Quarryman MOS-62G-001
Quartermaster Equipment Repairman MOS-63J-001 MOS-63J-002

Race Relations/Equal Opportunity Specialist MOS-00U-001
Radar Data Processing Equipment Repairman MOS-25H-001
Radar Maintenance Supervisor-Inspector MOS-26W-001
Radio Operator MOS-05B-001
Radio Propagation Specialist MOS-26P-001
Radio Relay and Carrier Attendant MOS-31M-001
Radio Teletype Operator MOS-05C-001
Radio Teletypewriter Operator (Non-Morse) MOS-05F-001
Radio/Television Systems Specialist MOS-26T-002
Railway Car Repairman MOS-65D-001
Railway Movement Coordinator MOS-65K-001
Railway Section Repairman MOS-65G-001
Railway Senior Sergeant MOS-65Z-001
Recovery Specialist MOS-63F-001
Recruiter and Career Counselor MOS-00E-001
Redeye Missile System Repairman MOS-27G-001
Repair Shop Technician (Warrant Officer) MOS-441A-001
Reproduction Equipment Repairman MOS-41K-001
Reproduction Equipment Repair Specialist MOS-41K-002
Reproduction Technician (Warrant Officer) MOS-833A-001
Respiratory Specialist MOS-91V-001 MOS-91V-002
Rodman and Tapeman MOS-82A-001
Rough Terrain Forklift and Loader Operator MOS-62M-001

Satellite Communications Ground Station Equipment Repairman MOS-26Y-001
Sawyer MOS-57D-001
Saxophone Player MOS-02L-001 MOS-02L-002
SDS 920 Equipment Repairman MOS-34M-001
Senior Supply Sergeant MOS-76Z-001
Sergeant Electrical-Mechanical Repairman MOS-46L-001
Sergeant Firing Set Repairman MOS-21R-001
Sergeant Maintenance Chief MOS-21U-001
Sergeant Missile Crewman MOS-15B-001 MOS-15B-002
Sergeant Missile Guidance Repairman MOS-21S-001
Sergeant Test Equipment Repairman MOS-21T-001
Sheridan Turret Mechanic MOS-45P-001
Shillelagh Missile System Repairman MOS-27H-001
Shillelagh Repairer MOS-27H-002
Short Range Air Defense Artillery Crewman MOS-16R-002
Short Range Air Defense Systems Technician (Warrant Officer) MOS-224B-001
Signal Intelligence Operations Chief MOS-98Z-001
Signal Security Specialist MOS-05G-001
Small Arms Repairman MOS-45B-001
Smoke and Flame Specialist MOS-54C-001 MOS-54C-002
Social Work/Psychology Specialist MOS-91G-001
Soils Analyst MOS-51G-001
Sound Ranging Crewman MOS-17C-001
Special Bandsman MOS-02S-001
Special Bandsperson MOS-02S-002
Special Duty Assignment MOS-00D-001
Special Electrical Devices Repairman MOS-35E-001
Special Identification Technician (Warrant Officer) MOS-986A-001
Special Services Senior Sergeant MOS-03Z-001
Stenographer MOS-71C-001 MOS-71C-002
Still Photographer MOS-84B-001
Still Photographic Specialist MOS-84B-002
Stock Control Supplyman MOS-76P-001
Storage Supplyman MOS-76V-001
Strategic Microwave Systems Repairman MOS-26V-001
Structures Specialist MOS-51C-001
Subsistence Supplyman MOS-76X-001
Supplyman MOS-76A-001
Support Supply Technician (Warrant Officer) MOS-762A-001
Surveillance Infrared Repairman MOS-26N-001
Surveillance Photographic Equipment Repairman MOS-41G-001
Survey Technician (Warrant Officer) MOS-821A-001

Tabulating Equipment Repairman MOS-34B-001
Tactical Circuit Controller MOS-31N-001
Tactical Communications Chief MOS-31G-001
Tactical COMSEC Maintenance Chief MOS-31U-001
Tactical Electronics Maintenance Chief MOS-31W-001
Tactical Microwave Systems Repairman MOS-26L-001
Tactical Wire Operations Specialist MOS-36K-001
Tank Turret Mechanic MOS-45N-001
Tank Turret Repairman MOS-45K-001 MOS-45K-002
Target Acquisition Radar Technician (Warrant Officer) MOS-211A-001
Telecommunications Center Specialist MOS-72E-001

Telecommunications Technician (Warrant Officer) MOS-290A-001
Telephone Installer and Lineman MOS-36C-001
Telephone Switchboard Operator MOS-72C-001
Teletypewriter Repairman MOS-31J-001
MOS-31J-002
Television Equipment Repairman MOS-26T-001
Terminal Operations Coordinator MOS-57H-003
Terminal Operations Specialist MOS-57H-002
Terrain Analyst MOS-81Q-001
Terrain Intelligence Analyst MOS-81Q-001
Textile Repairman MOS-43J-001
Topographic Computer MOS-82E-001
Topographic Engineering Supervisor MOS-81Z-001
Topographic Instrument Repairman MOS-41B-001
Topographic Instrument Repair Specialist MOS-41B-002
Topographic Surveyor MOS-82D-001
MOS-82D-002
TOW/Dragon Repairer MOS-27E-002
Track Vehicle Mechanic MOS-63C-001
MOS-63C-002
Traffic Analysis Technician (Warrant Officer) MOS-982A-001
Traffic Management Coordinator MOS-71N-001
Trainman MOS-65J-001
MOS-65J-002
Translator—Interpreter MOS-04B-001
Transportation Senior Sergeant MOS-64Z-001
Trombone Player MOS-02E-001
MOS-02E-002
Tuba Player MOS-02F-001
MOS-02F-002
TV Cameraman MOS-84E-001
TV Production Specialist MOS-84F-001
TV/Radio Broadcast Operations Chief MOS-84T-001

U-1A Airplane Repairman MOS-67C-001
U-8/U-21 Airplane Repairman MOS-67G-001
UH-1 Helicopter Repairman MOS-67N-001
Unattended Ground Sensor Specialist MOS-17M-001
MOS-17M-002
Unattended Ground Sensor Systems Repairman MOS-26U-001
Unit Clerk MOS-75B-001
Unit/Organization Supplyman MOS-76Y-001
Unit Personnel Technician (Warrant Officer) MOS-711A-001
Unit Supply Technician (Warrant Officer) MOS-761A-001
UNIVAC 1004/1005, DCT-9000 System Repairman .. MOS-34J-001
Utilities Foreman MOS-51P-001
Utilities Maintenance Technician (Warrant Officer) .. MOS-310A-001
Utilities Operation and Maintenance Technician (Warrant Officer) MOS-310A-001
Utility Helicopter Repairer MOS-67N-002
Utility/Observation Helicopter Pilot (Warrant Officer) MOS-100B-001

Vehicle Material Supply Specialist MOS-76S-001
Veterinary Specialist (Animal) MOS-91T-001
Veterinary Specialist (Food Inspection) MOS-91R-002
Voice Intercept Technician (Warrant Officer) MOS-986A-001
Voice Radio Operator MOS-05E-001
Vulcan Crewman MOS-16R-001
Vulcan/FAAR System Mechanic MOS-24M-002
Vulcan Repairer MOS-27F-002
Vulcan System Mechanic MOS-24M-001

Watercraft Engineer MOS-61C-002
Watercraft Operator MOS-61B-001
MOS-61B-002
Water Supply Specialist MOS-51N-001
Weapons Support Radar Repairman MOS-26B-001
Welder MOS-44C-001
Wheeled Tractor Operator MOS-62L-001
Wheel Vehicle Mechanic MOS-63B-001
MOS-63B-002
Wire-Guided Missile Systems Repairman MOS-27E-001
Woodwind Group Leader MOS-02Q-001

X-Ray Biomedical Equipment Repairman MOS-35T-001
X-Ray Specialist MOS-91P-001
MOS-91P-002

REQUEST FOR ARMY ENLISTED AND WARRANT OFFICER MOS RECOMMENDATIONS

Officials should use this form only for requesting enlisted and warrant officer MOS exhibits that contain the phrase, "Pending evaluation." As MOS's are evaluated, they will be listed in the *OEC Newsletter*. When you want to obtain the recommendation for a newly evaluated MOS, identify the exhibit you are requesting by using the complete *OEC I.D. number* (e.g., MOS-21G-002), and the MOS title. Include the applicant's name if you would like the name mentioned in the OEC reply. Please check the form for accuracy before forwarding it to OEC. Submit the form to the Office on Educational Credit, American Council on Education, One Dupont Circle, Washington, DC, 20036, attention Occupational Assessment Programs.

OEC I.D. Number	MOS Title Please print; do not abbreviate.	Name of Applicant

Signature of Official

Name of Official

Title

Institution or Organization

Street

City State Zip Code

Area Code Number Ext.

DO NOT WRITE IN THIS SPACE
OEC STAFF USE

Please retain file copies of any MOS recommendations received from the OEC Information Service.